INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH217	1	19	30.00	04/09/2023 14:12
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	25.00	30.00	Dry

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	29.96	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	16.42	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Waterra PP1	Average Flow Rate (litres/min)	1.0
Time to Purge (mins)	4	Number of Well Volumes Purged	0.2
Total Volume Purged (litres)	4.0	Operative	KW

Observations During Purging
(see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	5.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	18.2

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	19
Saturated depth (m) (sd) (installation base - groundwater level)	13.58
Volume of the Standpipe (litres) (πdp2/4)*10-3	3.8

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**22.0**

Sampling Information

Sample Depth (m bgl)	16.42
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	04/09/2023 14:20

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH217	2	50	6.00	30/08/2023 11:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	6.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	6.08	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring
(see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH219	1	50	4.00	30/08/2023 10:34
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	4.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.72	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH219	2	50	9.00	30/08/2023 10:41
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	5.00	9.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	8.68	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH220	1	50	39.00	04/09/2023 09:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	31.00	39.00	Dry

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	40.12	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH220	2	19	31.00	04/09/2023 09:45
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	31.00	Dry

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	30.26	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	29.91	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Number of Well Volumes Purged	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.09
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	4.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	19
Saturated depth (m) (sd) (installation base - groundwater level)	1.09
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.3

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**4.3**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH221	1	0	10.00	29/08/2023 09:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cover	4.00	10.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.79	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	9.21	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring
(see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.79
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	177
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	6.4

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	0
Saturated depth (m) (sd) (installation base - groundwater level)	0.79
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**6.4**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to sample due to insufficient water.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH222	1	50	4.00	31/08/2023 13:48
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cover	2.00	4.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.86	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	146
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH222	2	50	25.00	31/08/2023 13:46
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cover	15.00	25.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	24.56	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	23.59	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.41
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	146
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	6.9

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.41
Volume of the Standpipe (litres) (πdp2/4)*10-3	2.8

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**9.6**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to sample due to insufficient water.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH223	1	50	10.00	31/08/2023 14:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cover	4.00	10.00	Heavy Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	8	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	7.10	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	2.90
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	177
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	21.7

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	2.90
Volume of the Standpipe (litres) (πdp2/4)*10-3	5.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**27.3**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to sample with Waterra PP1 and wasp pump.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH224	1	50	10.00	25/08/2023 15:56
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	10.00	Rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.83	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	177
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Borehole dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH225	1	50	6.90	31/08/2023 14:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	3.00	6.90	Heavy Rain

Installation Inspection

Surface Conditions	Wet Boggy	Damage to Headworks?	N/A
Check Dip of Base (m bgl)	N/A	Pipe Cover/Bung Present?	N/A

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	N/A	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

No access to position due to poor ground conditions.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH226	1	50	10.00	31/08/2023 13:20
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cover	4.00	6.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.69	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	177
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH227	1	19	5.50	23/08/2023 11:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	5.50	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	5.49	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	5.02	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	N/A

Observations During Purging
(see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.48
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	178
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	3.9

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	19
Saturated depth (m) (sd) (installation base - groundwater level)	0.48
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.1

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**4.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Insufficient water for sampling.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH227	2	50	14.00	23/08/2023 10:45
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	8.00	14.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.47	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	13.69	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.31
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	1.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.31
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.6

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**1.6**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Insufficient water for sampling.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH228	1	50	40.00	23/08/2023 14:04
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	40.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	36.59	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	175
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH229	1	50	14.00	31/08/2023 13;04
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	8.00	14.00	Heavy Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.2	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	12.40	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	4	Number of Well Volumes Purged	0.9
Total Volume Purged (litres)	7.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running clear.

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.60
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	4.9

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.60
Volume of the Standpipe (litres) (πdp2/4)*10-3	3.1

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**8.1**

Sampling Information

Sample Depth (m bgl)	12.40
Sample Type	EW
Sample Reference Number	2
Date and Time Obtained	31/08/2023 13:15

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH229	2	50	3.00	31/08/2023 12:53
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	3.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	2.81	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH230	1	50	28.00	23/08/2023 13:42
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	28.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	25.92	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	175
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH231	1	50	25.00	30/08/2023 14:36
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	25.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	25.05	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	22.12	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Waterra PP1	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	2.88
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	177
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	21.5

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	2.88
Volume of the Standpipe (litres) (πdp2/4)*10-3	5.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**27.2**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to obtain sample with Waterra PP1 and Wasp Pump.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH232	1	50	7.00	31/08/2023 00:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
0	Pipe Plug	1.00	7.00	Heavy Rain

Installation Inspection

Surface Conditions	Wet Boggy	Damage to Headworks?	N/A
Check Dip of Base (m bgl)	N/A	Pipe Cover/Bung Present?	N/A

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	N/A	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	168
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to access position due to poor ground conditions.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH233	1	50	25.00	25/08/2023 14:36
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	25.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	25	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	168
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH235	1	50	15.00	23/08/2023 15:22
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	8.00	15.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.7	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH236	1	50	15.00	30/08/2023 00:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	10.00	15.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.42	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	13.14	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Waterra PP1	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.86
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	5.8

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.86
Volume of the Standpipe (litres) (πdp2/4)*10-3	3.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**9.5**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to obtain sample using Waterra PP1 or Wasp Pump.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH237	1	50	24.80	25/08/2023 13:52
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	24.80	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	25.27	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	12.47	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.5
Time to Purge (mins)	8	Number of Well Volumes Purged	0.3
Total Volume Purged (litres)	20.0	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	AquaTroll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	No
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	12.33
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	38.8

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	12.33
Volume of the Standpipe (litres) (πdp2/4)*10-3	24.2

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**63.0**

Sampling Information

Sample Depth (m bgl)	12.47
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	25/08/2023 14:14

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH239	1	50	3.60	22/08/2023 15:27
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	3.60	Overcast, light rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.6	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

n/a

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	1.37	LNAPL/ DNAPL (m bgl)	None present

Purging Details

Purge Method/ Device	WASP Pump	Average Flow Rate (litres/min)	4.4
Time to Purge (mins)	5	Number of Well Volumes Purged	0.8
Total Volume Purged (litres)	22.0	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	AQUA TROLL 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	No
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown to clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	2.23
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	21.7

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	2.23
Volume of the Standpipe (litres) (πdp2/4)*10-3	4.4

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**26.0**

Sampling Information

Sample Depth (m bgl)	1.37
Sample Type	EW
Sample Reference Number	5
Date and Time Obtained	22/08/2023 15:36

Additional Notes and Observations

n/a

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH239	2	50	10.00	22/08/2023 15:42
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	7.00	10.00	Overcast, light rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	7.59	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	1.92	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	WASP Pump	Average Flow Rate (litres/min)	5.6
Time to Purge (mins)	5	Number of Well Volumes Purged	0.9
Total Volume Purged (litres)	28.0	Operative	FT

Observations During Purging
(see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	AQUA TROLL 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Yellowish brown to greyish brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	146
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	14.6

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	8.08
Volume of the Standpipe (litres) (πdp2/4)*10-3	15.9

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**30.5**

Sampling Information

Sample Depth (m bgl)	1.92
Sample Type	EW
Sample Reference Number	6
Date and Time Obtained	22/08/2023 15:50

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH240	1	50	6.00	22/08/2023 14:52
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	6.00	Overcast, light rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	5.28	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	1.51	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	WASP Pump	Average Flow Rate (litres/min)	4.3
Time to Purge (mins)	10	Number of Well Volumes Purged	0.8
Total Volume Purged (litres)	43.0	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	AQUA TROLL 400	Groundwater Odour	Slight hydrocarbon odour
In-situ Parameter Device SN	1029035	Visual Turbidity	No
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish bown to clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	4.49
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	43.6

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	4.49
Volume of the Standpipe (litres) (πdp2/4)*10-3	8.8

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**52.4**

Sampling Information

Sample Depth (m bgl)	1.51
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	22/08/2023 14:52

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH241	1	50	15.00	23/08/2023 14:32
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	10.00	15.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.77	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	14.16	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.84
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	2.6

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.84
Volume of the Standpipe (litres) (πdp2/4)*10-3	1.6

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**4.3**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to purge due to insufficient water.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH242	1	50	3.70	22/08/2023 11:24
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	3.70	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.74	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	2.10	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	10	Number of Well Volumes Purged	1.0
Total Volume Purged (litres)	19.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	No
Confirm Field Calibration Completed	Yes	Groundwater Colour	light brown running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.60
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	15.5

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.60
Volume of the Standpipe (litres) (πdp2/4)*10-3	3.1

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**18.7**

Sampling Information

Sample Depth (m bgl)	3.74
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	22/08/2023 11:30

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH243	1	50	6.00	22/08/2023 15:16
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	5.00	6.00	Overcast - light rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	None
Check Dip of Base (m bgl)	5.86	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	3.18	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	WASP Pump	Average Flow Rate (litres/min)	3.0
Time to Purge (mins)	10	Number of Well Volumes Purged	2.8
Total Volume Purged (litres)	30.0	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown to clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	5.2

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	2.82
Volume of the Standpipe (litres) (πdp2/4)*10-3	5.5

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**10.7**

Sampling Information

Sample Depth (m bgl)	5.86
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	21/08/2023 15:11

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH243	2	50	3.00	21/08/2023 14:35
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	3.00	Overcast - light rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	None
Check Dip of Base (m bgl)	2.93	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Borehole dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH244	1	50	3.50	21/08/2023 14:29
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	3.50	Rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.42	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	2.65	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Purging (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.85
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	8.3

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.85
Volume of the Standpipe (litres) (πdp2/4)*10-3	1.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**9.9**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to sample, insufficient water.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH244	2	50	10.00	21//08/2023 14:52
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	4.50	10.00	Wet

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.44	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	2.77	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	7	Number of Well Volumes Purged	0.3
Total Volume Purged (litres)	13.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	No
Confirm Field Calibration Completed	Yes	Groundwater Colour	light Brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	5.50
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	28.5

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	7.23
Volume of the Standpipe (litres) (πdp2/4)*10-3	14.2

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**42.7**

Sampling Information

Sample Depth (m bgl)	9.44
Sample Type	EW
Sample Reference Number	2
Date and Time Obtained	21/08/2023 15:09

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH245	1	50	4.00	22/08/2023 10:49
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.50	4.00	Rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.82	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	3.16	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.84
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	8.2

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.84
Volume of the Standpipe (litres) (πdp2/4)*10-3	1.6

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**9.8**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to sample due to insufficient water.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH246	1	19	2.80	21/08/2023 13:43
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	2.80	Rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	2.5	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	19
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH246	2	50	8.00	21/08/2023 13:51
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	3.50	8.00	Wet

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	8.01	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	2.96	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	7	Number of Well Volumes Purged	0.4
Total Volume Purged (litres)	14.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	No
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	4.50
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	23.3

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	5.04
Volume of the Standpipe (litres) (πdp2/4)*10-3	9.9

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**33.2**

Sampling Information

Sample Depth (m bgl)	8.01
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	21/08/2023 14:11

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH247	1	50	9.00	22/08/2023 10:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	6.00	9.00	Overcast, dry

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	None
Check Dip of Base (m bgl)	8.84	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	FT

Observations During Purging
(see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	146
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

146

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Borehole dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH247	2	50	2.00	22/08/2023 10:45
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	2.00	Overcast, dry

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	None
Check Dip of Base (m bgl)	1.96	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Borehole dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH248	1	50	9.50	25/08/2023 11:09
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	6.50	9.50	Rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	8.95	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	6.00	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.9
Time to Purge (mins)	8	Number of Well Volumes Purged	1.0
Total Volume Purged (litres)	23.0	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	No
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown Running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	15.5

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	3.50
Volume of the Standpipe (litres) (πdp2/4)*10-3	6.9

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**22.4**

Sampling Information

Sample Depth (m bgl)	6.00
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	25/08/2023 11:17

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH248	2	50	4.00	25/08/2023 11:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	4.00	Rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.9	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH249	1	19	2.80	21/08/2023 13:50
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cap	1.00	2.80	Overcast - light rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	None
Check Dip of Base (m bgl)	3.14	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	19
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH249	2	50	8.00	21/08/2023 13:55
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	3.50	8.00	Overast -light rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	None
Check Dip of Base (m bgl)	7.49	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	3.69	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.5
Time to Purge (mins)	10	Number of Well Volumes Purged	0.8
Total Volume Purged (litres)	25.0	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	N/A
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	4.31
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	22.3

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	4.31
Volume of the Standpipe (litres) (πdp2/4)*10-3	8.5

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**30.8**

Sampling Information

Sample Depth (m bgl)	7.49
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	21/08/2023 14:10

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH250	1	50	9.50	24/08/2023 16:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	7.50	9.50	Rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	8.97	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	3.21	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	4.4
Time to Purge (mins)	5	Number of Well Volumes Purged	1.0
Total Volume Purged (litres)	22.0	Operative	FT

Observations During Purging
(see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	No
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	2.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	10.4

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	6.29
Volume of the Standpipe (litres) (πdp2/4)*10-3	12.3

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**22.7**

Sampling Information

Sample Depth (m bgl)	3.21
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	24/08/2023 16:10

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH250	2	50	2.00	24/08/2023 15:33
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	2.00	Rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	2.07	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH252	1	50	2.60	22/08/2023 13:45
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	2.60	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	2.55	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH252	2	50	9.00	22/08/2023 13:54
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	6.00	9.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	9	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	4.50	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	8	Number of Well Volumes Purged	0.7
Total Volume Purged (litres)	16.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	Earthy odour
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	146
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	14.6

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	4.50
Volume of the Standpipe (litres) (πdp2/4)*10-3	8.8

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**23.5**

Sampling Information

Sample Depth (m bgl)	9.00
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	22/08/2023 14:00

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH261	1	50	15.00	22/08/2023 11:56
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	10.00	15.00	Overcast Dry

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.06	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	9.56	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	WASP Pump	Average Flow Rate (litres/min)	3.2
Time to Purge (mins)	10	Number of Well Volumes Purged	0.9
Total Volume Purged (litres)	32.0	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	AQUA TROLL 400	Groundwater Odour	No
In-situ Parameter Device SN	SN1029035	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	5.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	25.9

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	5.44
Volume of the Standpipe (litres) (πdp2/4)*10-3	10.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**36.6**

Sampling Information

Sample Depth (m bgl)	9.56
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	22/08/2023 11:56

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH261	2	50	8.00	22/08/2023 11:41
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	3.00	8.00	Overcst dry

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	None
Check Dip of Base (m bgl)	7.81	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	FT

Observations During Purging
(see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

Low-Flow Test Report:

Test Date / Time: 29/06/2023 10:53:04
Project: GCRE 2
Operator Name: JP

Location Name: S1-BH118 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 7 m** **Top of Screen: 8 m** **Total Depth: 14.92 m** **Initial Depth to Water: 7.76 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 12000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
29/06/2023 10:53	00:00	6.99 pH	15.43 °C	542.87 µS/cm	2.60 mg/L		-30.9 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:53	00:30	6.99 pH	14.21 °C	554.89 µS/cm	0.89 mg/L		-31.6 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:54	01:00	6.98 pH	13.34 °C	558.08 µS/cm	0.40 mg/L		-31.7 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:54	01:30	6.96 pH	12.94 °C	553.99 µS/cm	0.30 mg/L		-31.4 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:55	02:00	6.94 pH	12.69 °C	543.34 µS/cm	0.27 mg/L		-30.7 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:55	02:30	6.91 pH	12.58 °C	530.82 µS/cm	0.26 mg/L		-29.9 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:56	03:00	6.90 pH	12.58 °C	523.55 µS/cm	0.26 mg/L		-29.4 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:56	03:30	6.88 pH	12.60 °C	517.52 µS/cm	0.26 mg/L		-29.0 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:57	04:00	6.86 pH	12.66 °C	510.38 µS/cm	0.26 mg/L		-28.0 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:57	04:30	6.87 pH	12.76 °C	508.12 µS/cm	0.27 mg/L		-28.4 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:58	05:00	6.86 pH	12.71 °C	503.21 µS/cm	0.27 mg/L		-28.0 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:58	05:30	6.86 pH	12.71 °C	499.64 µS/cm	0.28 mg/L		-27.6 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:59	06:00	6.86 pH	12.70 °C	498.49 µS/cm	0.29 mg/L		-44.8 mV	776.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Low-Flow Test Report:

Test Date / Time: 6/29/2023 11:14:17 AM
Project: GCRE2
Operator Name: CE

Location Name: S1-BH119.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 7 m** **Top of Screen: 8 m** **Total Depth: 15 m** **Initial Depth to Water: 7.61 m**	**Pump Type: Wasp pump** **Estimated Total Volume Pumped: 36000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/29/2023 11:14 AM	00:00	7.38 pH	19.11 °C	462.61 µS/cm	5.70 mg/L		404.4 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:14 AM	00:30	7.30 pH	15.17 °C	415.21 µS/cm	1.27 mg/L		744.3 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:15 AM	01:00	7.41 pH	13.91 °C	412.16 µS/cm	0.28 mg/L		915.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:15 AM	01:30	7.45 pH	13.27 °C	417.30 µS/cm	0.17 mg/L		962.3 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:16 AM	02:00	7.48 pH	12.88 °C	421.07 µS/cm	0.28 mg/L		976.0 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:16 AM	02:30	7.49 pH	12.67 °C	420.46 µS/cm	0.55 mg/L		980.2 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:17 AM	03:00	7.49 pH	12.61 °C	419.07 µS/cm	1.09 mg/L		980.9 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:17 AM	03:30	7.50 pH	12.58 °C	414.13 µS/cm	1.25 mg/L		981.5 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:18 AM	04:00	7.50 pH	12.58 °C	407.72 µS/cm	0.78 mg/L		978.6 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:18 AM	04:30	7.50 pH	12.58 °C	399.67 µS/cm	1.28 mg/L		979.1 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:19 AM	05:00	7.49 pH	12.63 °C	395.64 µS/cm	1.43 mg/L		978.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:19 AM	05:30	7.49 pH	12.69 °C	371.96 µS/cm	1.62 mg/L		975.9 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:20 AM	06:00	7.49 pH	12.26 °C	387.74 µS/cm	0.39 mg/L		975.4 mV	761.00 cm	2,000.0 ml/min

6/29/2023 11:20 AM	06:30	7.48 pH	12.21 °C	390.25 µS/cm	0.13 mg/L		972.6 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:21 AM	07:00	7.48 pH	12.22 °C	392.34 µS/cm	0.07 mg/L		967.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:21 AM	07:30	7.48 pH	12.19 °C	392.65 µS/cm	0.05 mg/L		964.6 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:22 AM	08:00	7.47 pH	12.14 °C	393.26 µS/cm	0.04 mg/L		961.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:22 AM	08:30	7.47 pH	12.14 °C	393.06 µS/cm	0.03 mg/L		958.4 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:23 AM	09:00	7.47 pH	12.17 °C	392.83 µS/cm	0.03 mg/L		955.1 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:23 AM	09:30	7.47 pH	12.21 °C	392.80 µS/cm	0.27 mg/L		962.6 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:24 AM	10:00	7.47 pH	12.22 °C	393.47 µS/cm	0.15 mg/L		956.9 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:24 AM	10:30	7.46 pH	12.23 °C	394.74 µS/cm	0.07 mg/L		951.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:25 AM	11:00	7.46 pH	12.26 °C	395.76 µS/cm	0.04 mg/L		947.5 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:25 AM	11:30	7.46 pH	12.35 °C	397.08 µS/cm	0.32 mg/L		948.6 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:26 AM	12:00	7.46 pH	12.43 °C	411.83 µS/cm	0.90 mg/L		950.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:26 AM	12:30	7.46 pH	12.49 °C	398.03 µS/cm	1.07 mg/L		950.0 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:27 AM	13:00	7.46 pH	12.58 °C	399.77 µS/cm	0.96 mg/L		947.2 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:27 AM	13:30	7.46 pH	12.72 °C	401.86 µS/cm	1.30 mg/L		944.5 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:28 AM	14:00	7.47 pH	12.70 °C	396.95 µS/cm	1.07 mg/L		944.6 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:28 AM	14:30	7.47 pH	12.12 °C	394.73 µS/cm	0.17 mg/L		943.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:29 AM	15:00	7.47 pH	12.05 °C	397.03 µS/cm	0.05 mg/L		940.3 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:29 AM	15:30	7.47 pH	11.94 °C	399.76 µS/cm	0.02 mg/L		937.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:30 AM	16:00	7.47 pH	12.12 °C	0.00 µS/cm	0.62 mg/L		993.9 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:30 AM	16:30	7.50 pH	12.16 °C	397.27 µS/cm	1.97 mg/L		939.5 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:31 AM	17:00	7.50 pH	11.80 °C	396.36 µS/cm	0.30 mg/L		937.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:31 AM	17:30	7.79 pH	11.89 °C	3.13 µS/cm	0.16 mg/L		1,039.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:32 AM	18:00	7.79 pH	11.98 °C	2.02 µS/cm	0.35 mg/L		1,035.5 mV	761.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/29/2023 12:16:15 PM
Project: GCRE2
Operator Name: CE

Location Name: S1-BH120 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 8 m** **Top of Screen: 12 m** **Total Depth: 19.41 m** **Initial Depth to Water: 9.27 m**	**Pump Type: Wasp pump** **Estimated Total Volume Pumped: 12000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/29/2023 12:16 PM	00:00	7.75 pH	17.90 °C	279.05 µS/cm	5.59 mg/L		371.4 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:16 PM	00:30	7.67 pH	16.11 °C	291.32 µS/cm	1.95 mg/L		745.9 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:17 PM	01:00	7.64 pH	14.50 °C	298.55 µS/cm	0.68 mg/L		899.9 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:17 PM	01:30	7.62 pH	13.63 °C	300.43 µS/cm	0.30 mg/L		938.3 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:18 PM	02:00	7.60 pH	13.13 °C	303.02 µS/cm	0.19 mg/L		943.6 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:18 PM	02:30	7.58 pH	12.80 °C	304.54 µS/cm	0.16 mg/L		947.4 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:19 PM	03:00	7.55 pH	12.62 °C	305.74 µS/cm	0.14 mg/L		945.9 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:19 PM	03:30	7.54 pH	12.52 °C	304.40 µS/cm	0.12 mg/L		942.8 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:20 PM	04:00	7.52 pH	12.49 °C	303.78 µS/cm	0.12 mg/L		941.4 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:20 PM	04:30	7.50 pH	12.60 °C	305.01 µS/cm	0.12 mg/L		939.2 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:21 PM	05:00	7.48 pH	12.76 °C	305.55 µS/cm	0.12 mg/L		936.8 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:21 PM	05:30	7.46 pH	12.92 °C	305.81 µS/cm	0.13 mg/L		934.2 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:22 PM	06:00	7.45 pH	13.07 °C	306.11 µS/cm	0.13 mg/L		934.2 mV	927.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Low-Flow Test Report:

Test Date / Time: 06/07/2023 12:49:32
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH217.1 **Well Diameter: 1.9 cm** **Casing Type: Plastic** **Screen Length: 5 m** **Top of Screen: 25 m** **Total Depth: 29.55 m** **Initial Depth to Water: 15.62 m**	**Pump Type: Waterra PP1** **Estimated Total Volume Pumped: 10000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 750 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Shower

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
06/07/2023 12:49	00:00	7.31 pH	14.58 °C	517.20 µS/cm	0.19 mg/L		-1.5 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:50	00:30	7.35 pH	15.21 °C	496.86 µS/cm	0.24 mg/L		0.2 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:50	01:00	7.36 pH	13.16 °C	483.86 µS/cm	0.21 mg/L		1.4 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:51	01:30	7.35 pH	12.39 °C	490.40 µS/cm	0.16 mg/L		2.2 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:51	02:00	7.32 pH	12.01 °C	478.78 µS/cm	0.15 mg/L		-0.7 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:52	02:30	7.31 pH	11.80 °C	488.79 µS/cm	0.14 mg/L		-0.9 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:52	03:00	7.32 pH	11.71 °C	502.57 µS/cm	0.11 mg/L		0.2 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:53	03:30	7.33 pH	11.75 °C	509.59 µS/cm	0.08 mg/L		0.9 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:53	04:00	7.34 pH	11.84 °C	512.83 µS/cm	0.07 mg/L		1.5 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:54	04:30	7.35 pH	11.95 °C	515.40 µS/cm	0.06 mg/L		1.9 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:54	05:00	7.36 pH	11.98 °C	517.46 µS/cm	0.06 mg/L		2.6 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:55	05:30	7.37 pH	12.00 °C	519.80 µS/cm	0.06 mg/L		3.0 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:55	06:00	7.37 pH	12.10 °C	522.58 µS/cm	0.06 mg/L		3.6 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:56	06:30	7.36 pH	12.16 °C	523.95 µS/cm	0.06 mg/L		4.2 mV	1,562.0 cm	1,000.00 ml/min

06/07/2023 12:56	07:00	7.35 pH	12.24 °C	527.01 µS/cm	0.07 mg/L		4.6 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:57	07:30	7.36 pH	12.37 °C	528.53 µS/cm	0.07 mg/L		4.4 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:57	08:00	7.37 pH	12.53 °C	532.07 µS/cm	0.07 mg/L		4.4 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:58	08:30	7.36 pH	12.72 °C	532.15 µS/cm	0.07 mg/L		4.5 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:58	09:00	7.33 pH	12.90 °C	530.61 µS/cm	0.08 mg/L		5.1 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:59	09:30	7.41 pH	13.13 °C	530.51 µS/cm	0.08 mg/L		3.2 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:59	10:00	8.49 pH	12.16 °C	725.11 µS/cm	0.06 mg/L		-8.2 mV	1,562.0 cm	1,000.00 ml/min

Samples

Sample ID:	Description:
EW1	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 05/07/2023 10:27:03
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH225 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 3 m** **Top of Screen: 3 m** **Total Depth: 5.89 m** **Initial Depth to Water: 3.98 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 15000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Showers

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
05/07/2023 10:27	00:00	7.59 pH	14.03 °C	462.42 µS/cm	5.85 mg/L		15.3 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:27	00:30	7.39 pH	13.82 °C	461.02 µS/cm	2.62 mg/L		13.8 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:28	01:00	7.29 pH	13.12 °C	462.17 µS/cm	1.54 mg/L		13.1 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:28	01:30	7.25 pH	12.58 °C	435.30 µS/cm	1.17 mg/L		11.4 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:29	02:00	7.20 pH	12.35 °C	426.14 µS/cm	0.87 mg/L		7.1 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:29	02:30	7.15 pH	12.12 °C	422.51 µS/cm	0.64 mg/L		2.5 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:30	03:00	7.11 pH	11.86 °C	412.28 µS/cm	0.46 mg/L		-0.5 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:30	03:30	7.08 pH	11.83 °C	371.53 µS/cm	0.39 mg/L		-1.2 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:31	04:00	7.03 pH	11.48 °C	313.53 µS/cm	0.41 mg/L		0.3 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:31	04:30	6.96 pH	11.06 °C	244.28 µS/cm	0.40 mg/L		3.0 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:32	05:00	6.89 pH	10.87 °C	219.92 µS/cm	0.35 mg/L		4.6 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:32	05:30	6.85 pH	10.75 °C	213.53 µS/cm	0.30 mg/L		5.1 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:33	06:00	6.82 pH	10.68 °C	209.66 µS/cm	0.27 mg/L		5.0 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:33	06:30	6.80 pH	10.64 °C	210.80 µS/cm	0.25 mg/L		5.2 mV	398.00 cm	2,000.0 ml/min

05/07/2023 10:34	07:00	6.79 pH	10.60 °C	210.96 µS/cm	0.25 mg/L		5.0 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:34	07:30	6.79 pH	10.57 °C	209.75 µS/cm	0.25 mg/L		4.5 mV	398.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/29/2023 3:52:41 PM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH227.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 6 m** **Top of Screen: 8 m** **Total Depth: 14.35 m** **Initial Depth to Water: 11.09 m**	**Pump Type: Wasp pump** **Estimated Total Volume Pumped: 58000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/29/2023 3:52 PM	00:00	7.54 pH	11.78 °C	288.38 µS/cm	0.12 mg/L		375.6 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:53 PM	00:30	7.53 pH	11.76 °C	288.96 µS/cm	0.09 mg/L		707.1 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:53 PM	01:00	7.53 pH	11.75 °C	288.83 µS/cm	0.07 mg/L		852.0 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:54 PM	01:30	7.50 pH	11.71 °C	288.95 µS/cm	0.07 mg/L		923.6 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:54 PM	02:00	7.51 pH	11.76 °C	289.60 µS/cm	0.08 mg/L		927.5 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:55 PM	02:30	7.50 pH	11.84 °C	290.02 µS/cm	0.06 mg/L		953.2 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:55 PM	03:00	7.49 pH	11.93 °C	290.41 µS/cm	0.06 mg/L		939.5 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:56 PM	03:30	7.49 pH	11.96 °C	290.45 µS/cm	0.06 mg/L		938.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:56 PM	04:00	7.48 pH	11.99 °C	290.59 µS/cm	0.06 mg/L		956.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:57 PM	04:30	7.48 pH	12.03 °C	290.71 µS/cm	0.06 mg/L		937.5 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:57 PM	05:00	7.47 pH	12.04 °C	290.73 µS/cm	0.06 mg/L		954.3 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:58 PM	05:30	7.47 pH	12.03 °C	291.20 µS/cm	0.06 mg/L		932.6 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:58 PM	06:00	7.47 pH	12.03 °C	291.60 µS/cm	0.05 mg/L		928.3 mV	1,109.0 cm	2,000.0 ml/min

6/29/2023 3:59 PM	06:30	7.47 pH	11.98 °C	291.45 µS/cm	0.05 mg/L		953.6 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:59 PM	07:00	7.47 pH	11.94 °C	291.69 µS/cm	0.05 mg/L		938.5 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:00 PM	07:30	7.46 pH	11.91 °C	291.66 µS/cm	0.06 mg/L		930.9 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:00 PM	08:00	7.46 pH	11.88 °C	291.83 µS/cm	0.06 mg/L		923.0 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:01 PM	08:30	7.46 pH	11.87 °C	292.12 µS/cm	0.06 mg/L		921.0 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:01 PM	09:00	7.46 pH	11.86 °C	292.41 µS/cm	0.06 mg/L		939.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:02 PM	09:30	7.46 pH	11.89 °C	292.86 µS/cm	0.06 mg/L		933.1 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:02 PM	10:00	7.46 pH	11.94 °C	292.77 µS/cm	0.06 mg/L		926.7 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:03 PM	10:30	7.46 pH	11.94 °C	292.83 µS/cm	0.06 mg/L		914.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:03 PM	11:00	7.46 pH	11.94 °C	293.04 µS/cm	0.06 mg/L		909.2 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:04 PM	11:30	7.46 pH	11.94 °C	292.92 µS/cm	0.06 mg/L		934.0 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:04 PM	12:00	7.47 pH	11.98 °C	293.38 µS/cm	0.06 mg/L		909.7 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:05 PM	12:30	7.47 pH	12.04 °C	293.73 µS/cm	0.06 mg/L		927.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:05 PM	13:00	7.47 pH	12.09 °C	293.90 µS/cm	0.05 mg/L		905.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:06 PM	13:30	7.47 pH	12.13 °C	294.06 µS/cm	0.05 mg/L		903.2 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:06 PM	14:00	7.47 pH	12.14 °C	293.90 µS/cm	0.05 mg/L		923.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:07 PM	14:30	7.47 pH	12.17 °C	294.19 µS/cm	0.05 mg/L		903.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:07 PM	15:00	7.47 pH	12.21 °C	294.50 µS/cm	0.05 mg/L		902.0 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:08 PM	15:30	7.47 pH	12.26 °C	294.60 µS/cm	0.05 mg/L		917.6 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:08 PM	16:00	7.47 pH	12.31 °C	294.86 µS/cm	0.05 mg/L		907.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:09 PM	16:30	7.47 pH	12.36 °C	294.94 µS/cm	0.05 mg/L		901.7 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:09 PM	17:00	7.47 pH	12.40 °C	295.11 µS/cm	0.05 mg/L		894.1 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:10 PM	17:30	7.46 pH	12.44 °C	295.02 µS/cm	0.05 mg/L		895.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:10 PM	18:00	7.47 pH	12.40 °C	294.72 µS/cm	0.05 mg/L		915.5 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:11 PM	18:30	7.47 pH	12.35 °C	294.49 µS/cm	0.05 mg/L		894.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:11 PM	19:00	7.47 pH	12.26 °C	294.03 µS/cm	0.04 mg/L		916.2 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:12 PM	19:30	7.47 pH	12.26 °C	294.22 µS/cm	0.04 mg/L		889.1 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:12 PM	20:00	7.47 pH	12.26 °C	294.51 µS/cm	0.04 mg/L		909.2 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:13 PM	20:30	7.47 pH	12.30 °C	294.72 µS/cm	0.04 mg/L		896.4 mV	1,109.0 cm	2,000.0 ml/min

6/29/2023 4:13 PM	21:00	7.47 pH	12.33 °C	295.64 µS/cm	0.04 mg/L		880.9 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:14 PM	21:30	7.47 pH	12.36 °C	295.78 µS/cm	0.04 mg/L		908.0 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:14 PM	22:00	7.47 pH	12.44 °C	296.19 µS/cm	0.04 mg/L		883.1 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:15 PM	22:30	7.47 pH	12.58 °C	296.73 µS/cm	0.05 mg/L		881.3 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:15 PM	23:00	7.46 pH	12.67 °C	298.06 µS/cm	0.06 mg/L		904.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:16 PM	23:30	7.46 pH	12.86 °C	298.01 µS/cm	0.06 mg/L		878.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:16 PM	24:00	7.46 pH	12.99 °C	297.77 µS/cm	0.07 mg/L		898.1 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:17 PM	24:30	7.46 pH	13.09 °C	297.41 µS/cm	0.07 mg/L		876.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:17 PM	25:00	7.46 pH	13.22 °C	297.13 µS/cm	0.08 mg/L		873.1 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:18 PM	25:30	7.46 pH	13.28 °C	297.45 µS/cm	0.08 mg/L		902.7 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:18 PM	26:00	7.46 pH	13.43 °C	297.79 µS/cm	0.09 mg/L		882.0 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:19 PM	26:30	7.45 pH	13.58 °C	297.74 µS/cm	0.10 mg/L		877.5 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:19 PM	27:00	7.45 pH	13.72 °C	298.02 µS/cm	0.10 mg/L		878.5 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:20 PM	27:30	7.45 pH	13.81 °C	298.59 µS/cm	0.11 mg/L		861.2 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:20 PM	28:00	7.45 pH	13.94 °C	298.45 µS/cm	0.11 mg/L		891.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:21 PM	28:30	7.45 pH	14.09 °C	298.09 µS/cm	0.12 mg/L		867.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:21 PM	29:00	7.45 pH	14.13 °C	298.30 µS/cm	0.12 mg/L		822.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:22 PM	29:30		13.40 °C	292.31 µS/cm	0.09 mg/L		906.4 mV		
6/29/2023 4:26 PM	33:29	7.48 pH	11.65 °C	294.12 µS/cm	0.01 mg/L		379.5 mV		
6/29/2023 4:26 PM	33:59	7.48 pH	11.63 °C	294.24 µS/cm	0.01 mg/L		738.0 mV		
6/29/2023 4:27 PM	34:26	7.48 pH	11.61 °C	294.03 µS/cm	0.01 mg/L		878.1 mV		
6/29/2023 4:27 PM	34:56	7.49 pH	11.57 °C	294.47 µS/cm	0.01 mg/L		878.9 mV		
6/29/2023 4:28 PM	35:26	7.49 pH	11.57 °C	294.66 µS/cm	0.01 mg/L		878.3 mV		
6/29/2023 4:28 PM	35:56	7.49 pH	11.56 °C	294.93 µS/cm	0.01 mg/L		886.4 mV		
6/29/2023 4:29 PM	36:26	7.49 pH	11.56 °C	295.08 µS/cm	0.01 mg/L		910.4 mV		
6/29/2023 4:29 PM	36:56	7.49 pH	11.52 °C	295.13 µS/cm	0.01 mg/L		911.7 mV		
6/29/2023 4:30 PM	37:26	7.49 pH	11.48 °C	295.24 µS/cm	0.01 mg/L		864.6 mV		
6/29/2023 4:30 PM	37:56	7.49 pH	11.45 °C	295.48 µS/cm	0.01 mg/L		881.6 mV		
6/29/2023 4:31 PM	38:26	7.49 pH	11.42 °C	295.69 µS/cm	0.01 mg/L		870.7 mV		

6/29/2023 4:31 PM	38:56	7.49 pH	11.40 °C	295.93 µS/cm	0.01 mg/L		851.3 mV		
6/29/2023 4:32 PM	39:26	7.49 pH	11.39 °C	295.97 µS/cm	0.01 mg/L		888.5 mV		
6/29/2023 4:32 PM	39:56	7.49 pH	11.39 °C	296.13 µS/cm	0.01 mg/L		850.4 mV		
6/29/2023 4:33 PM	40:26	7.49 pH	11.39 °C	296.18 µS/cm	0.00 mg/L		879.0 mV		
6/29/2023 4:33 PM	40:56	7.49 pH	11.43 °C	296.31 µS/cm	0.00 mg/L		855.9 mV		
6/29/2023 4:34 PM	41:26	7.49 pH	11.48 °C	296.51 µS/cm	0.00 mg/L		853.8 mV		
6/29/2023 4:34 PM	41:56	7.49 pH	11.56 °C	296.33 µS/cm	0.00 mg/L		873.7 mV		
6/29/2023 4:35 PM	42:26	7.49 pH	11.57 °C	296.24 µS/cm	0.00 mg/L		869.5 mV		
6/29/2023 4:35 PM	42:56	7.49 pH	11.55 °C	296.00 µS/cm	0.00 mg/L		857.9 mV		
6/29/2023 4:36 PM	43:26	7.49 pH	11.52 °C	295.96 µS/cm	0.00 mg/L		851.9 mV		
6/29/2023 4:36 PM	43:56	7.49 pH	11.52 °C	296.22 µS/cm	0.00 mg/L		853.6 mV		
6/29/2023 4:37 PM	44:26	7.49 pH	11.52 °C	296.10 µS/cm	0.00 mg/L		872.8 mV		
6/29/2023 4:37 PM	44:56	7.49 pH	11.52 °C	296.11 µS/cm	0.00 mg/L		864.3 mV		
6/29/2023 4:38 PM	45:26	7.49 pH	11.49 °C	296.12 µS/cm	0.00 mg/L		874.3 mV		
6/29/2023 4:38 PM	45:56	7.49 pH	11.47 °C	295.94 µS/cm	0.00 mg/L		849.6 mV		
6/29/2023 4:39 PM	46:26	7.49 pH	11.47 °C	295.96 µS/cm	0.00 mg/L		848.3 mV		
6/29/2023 4:39 PM	46:56	7.49 pH	11.48 °C	296.09 µS/cm	0.00 mg/L		878.6 mV		
6/29/2023 4:40 PM	47:26	7.49 pH	11.48 °C	296.17 µS/cm	0.00 mg/L		843.9 mV		
6/29/2023 4:40 PM	47:56	7.49 pH	11.48 °C	296.17 µS/cm	0.00 mg/L		873.4 mV		
6/29/2023 4:41 PM	48:26	7.49 pH	11.47 °C	295.69 µS/cm	0.00 mg/L		847.2 mV		
6/29/2023 4:41 PM	48:56	7.49 pH	11.43 °C	295.53 µS/cm	0.00 mg/L		845.1 mV		
6/29/2023 4:42 PM	49:26	7.50 pH	11.40 °C	295.61 µS/cm	0.00 mg/L		867.1 mV		
6/29/2023 4:42 PM	49:56	7.49 pH	11.46 °C	296.01 µS/cm	0.00 mg/L		844.6 mV		
6/29/2023 4:43 PM	50:26	7.49 pH	11.53 °C	296.53 µS/cm	0.01 mg/L		865.4 mV		
6/29/2023 4:43 PM	50:56	7.49 pH	11.62 °C	296.64 µS/cm	0.01 mg/L		841.0 mV		
6/29/2023 4:44 PM	51:26	7.49 pH	11.69 °C	296.75 µS/cm	0.01 mg/L		781.4 mV		
6/29/2023 4:44 PM	51:56	7.49 pH	11.78 °C	296.91 µS/cm	0.02 mg/L		863.3 mV		
6/29/2023 4:45 PM	52:26	7.48 pH	11.89 °C	297.16 µS/cm	0.02 mg/L		837.6 mV		
6/29/2023 4:45 PM	52:56	7.48 pH	11.99 °C	297.33 µS/cm	0.03 mg/L		840.8 mV		

6/29/2023 4:46 PM	53:26	7.48 pH	12.08 °C	297.32 µS/cm	0.03 mg/L		861.8 mV		
6/29/2023 4:46 PM	53:56	7.48 pH	12.19 °C	297.33 µS/cm	0.03 mg/L		841.9 mV		
6/29/2023 4:47 PM	54:26	7.48 pH	12.30 °C	297.29 µS/cm	0.03 mg/L		861.3 mV		
6/29/2023 4:47 PM	54:56	7.48 pH	12.40 °C	297.14 µS/cm	0.03 mg/L		840.0 mV		
6/29/2023 4:48 PM	55:26	7.48 pH	12.49 °C	297.06 µS/cm	0.03 mg/L		840.5 mV		
6/29/2023 4:48 PM	55:56	7.48 pH	12.51 °C	296.73 µS/cm	0.03 mg/L		857.5 mV		
6/29/2023 4:49 PM	56:26	7.48 pH	12.53 °C	296.19 µS/cm	0.03 mg/L		838.9 mV		
6/29/2023 4:49 PM	56:56	7.48 pH	12.55 °C	296.04 µS/cm	0.03 mg/L		858.5 mV		
6/29/2023 4:50 PM	57:26	7.48 pH	12.58 °C	295.91 µS/cm	0.03 mg/L		849.8 mV		
6/29/2023 4:50 PM	57:56	7.48 pH	12.62 °C	296.11 µS/cm	0.03 mg/L		827.1 mV		
6/29/2023 4:51 PM	58:26	7.48 pH	12.58 °C	296.16 µS/cm	0.03 mg/L		859.6 mV		
6/29/2023 4:51 PM	58:56	7.48 pH	12.58 °C	296.37 µS/cm	0.03 mg/L		837.1 mV		
6/29/2023 4:52 PM	59:26	7.48 pH	12.63 °C	296.57 µS/cm	0.03 mg/L		856.2 mV		
6/29/2023 4:52 PM	59:56	7.48 pH	12.59 °C	296.65 µS/cm	0.03 mg/L		834.9 mV		
6/29/2023 4:53 PM	01:00:26	7.48 pH	12.58 °C	296.20 µS/cm	0.04 mg/L		833.4 mV		
6/29/2023 4:53 PM	01:00:56	7.48 pH	12.55 °C	296.44 µS/cm	0.04 mg/L		872.7 mV		
6/29/2023 4:54 PM	01:01:26	7.48 pH	12.54 °C	296.87 µS/cm	0.05 mg/L		835.0 mV		
6/29/2023 4:56 PM	01:03:54	7.99 pH	12.10 °C	3.61 µS/cm	1.49 mg/L		615.6 mV		

Samples

Sample ID:	Description:
EW1	

Low-Flow Test Report:

Test Date / Time: 29/06/2023 11:49:53
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH232 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 7 m** **Top of Screen: 1 m** **Total Depth: 6.83 m** **Initial Depth to Water: 5.28 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 12000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
29/06/2023 11:49	00:00	6.94 pH	19.12 °C	470.97 µS/cm	3.29 mg/L		-38.4 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:50	00:30	6.88 pH	16.06 °C	476.69 µS/cm	0.98 mg/L		-45.0 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:50	01:00	6.88 pH	14.73 °C	483.63 µS/cm	0.37 mg/L		-46.0 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:51	01:30	6.88 pH	13.85 °C	490.14 µS/cm	0.22 mg/L		-45.9 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:51	02:00	6.86 pH	13.45 °C	494.04 µS/cm	0.17 mg/L		-44.3 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:52	02:30	6.86 pH	13.29 °C	497.47 µS/cm	0.15 mg/L		-44.1 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:52	03:00	6.86 pH	13.08 °C	497.90 µS/cm	0.14 mg/L		-44.1 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:53	03:30	6.86 pH	12.96 °C	498.47 µS/cm	0.13 mg/L		-43.4 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:53	04:00	6.86 pH	12.95 °C	498.72 µS/cm	0.13 mg/L		-43.5 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:54	04:30	6.85 pH	12.99 °C	498.46 µS/cm	0.12 mg/L		-43.2 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:54	05:00	6.85 pH	13.03 °C	497.16 µS/cm	0.12 mg/L		-42.9 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:55	05:30	6.85 pH	13.03 °C	497.52 µS/cm	0.11 mg/L		-42.7 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:55	06:00	6.85 pH	13.01 °C	499.30 µS/cm	0.11 mg/L		-43.1 mV	528.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Low-Flow Test Report:

Test Date / Time: 29/06/2023 09:31:57
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH237 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 22.8 m** **Top of Screen: 2 m** **Total Depth: 25.37 m** **Initial Depth to Water: 12.67 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 16000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
29/06/2023 09:31	00:00	6.65 pH	15.57 °C	525.37 µS/cm	2.28 mg/L		4.0 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:32	00:30	6.61 pH	14.75 °C	534.94 µS/cm	0.91 mg/L		1.1 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:32	01:00	6.59 pH	13.49 °C	551.94 µS/cm	0.34 mg/L		1.0 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:33	01:30	6.57 pH	12.85 °C	557.81 µS/cm	0.23 mg/L		0.8 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:33	02:00	6.56 pH	12.40 °C	564.14 µS/cm	0.18 mg/L		0.5 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:34	02:30	6.55 pH	12.22 °C	565.61 µS/cm	0.16 mg/L		0.5 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:34	03:00	6.55 pH	12.08 °C	566.44 µS/cm	0.15 mg/L		0.4 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:35	03:30	6.55 pH	12.00 °C	566.72 µS/cm	0.14 mg/L		0.2 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:35	04:00	6.54 pH	11.96 °C	566.45 µS/cm	0.14 mg/L		0.1 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:36	04:30	6.54 pH	11.93 °C	566.34 µS/cm	0.14 mg/L		-0.7 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:36	05:00	6.54 pH	11.93 °C	566.44 µS/cm	0.14 mg/L		-0.2 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:37	05:30	6.54 pH	11.91 °C	566.59 µS/cm	0.15 mg/L		-0.2 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:37	06:00	6.55 pH	11.84 °C	566.74 µS/cm	0.16 mg/L		-0.8 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:38	06:30	6.55 pH	11.77 °C	566.53 µS/cm	0.17 mg/L		-0.3 mV	1,267.0 cm	2,000.0 ml/min

29/06/2023 09:38	07:00	6.55 pH	11.70 °C	567.28 µS/cm	0.19 mg/L		0.1 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:39	07:30	6.55 pH	11.65 °C	566.64 µS/cm	0.20 mg/L		0.3 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:39	08:00	6.55 pH	11.61 °C	563.74 µS/cm	0.22 mg/L		0.4 mV	1,267.0 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/27/2023 10:10:46 AM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH239.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 2.6 m** **Top of Screen: 1 m** **Total Depth: 3.6 m** **Initial Depth to Water: 1.89 m**	**Pump Type: Wasp pump** **Estimated Total Volume Pumped: 16000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/27/2023 10:10 AM	00:00	7.94 pH	15.24 °C	732.74 µS/cm	8.41 mg/L		388.8 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:11 AM	00:30	7.86 pH	15.25 °C	727.22 µS/cm	1.49 mg/L		628.8 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:11 AM	01:00	7.81 pH	15.35 °C	724.58 µS/cm	0.49 mg/L		709.6 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:12 AM	01:30	7.78 pH	15.44 °C	726.33 µS/cm	0.29 mg/L		742.4 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:12 AM	02:00	7.75 pH	15.53 °C	723.06 µS/cm	0.24 mg/L		755.4 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:13 AM	02:30	7.73 pH	15.62 °C	727.38 µS/cm	0.23 mg/L		760.0 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:13 AM	03:00	7.71 pH	15.69 °C	732.11 µS/cm	0.21 mg/L		761.5 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:14 AM	03:30	7.70 pH	15.75 °C	731.90 µS/cm	0.18 mg/L		763.6 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:14 AM	04:00	7.70 pH	15.81 °C	731.74 µS/cm	0.17 mg/L		768.9 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:15 AM	04:30	7.69 pH	15.85 °C	731.64 µS/cm	0.16 mg/L		769.5 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:15 AM	05:00	7.69 pH	15.89 °C	731.34 µS/cm	0.15 mg/L		769.4 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:16 AM	05:30	7.68 pH	15.93 °C	731.12 µS/cm	0.14 mg/L		769.5 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:16 AM	06:00	7.68 pH	15.95 °C	730.75 µS/cm	0.13 mg/L		773.9 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:17 AM	06:30	7.68 pH	15.98 °C	730.83 µS/cm	0.13 mg/L		762.4 mV	189.00 cm	2,000.0 ml/min

6/27/2023 10:17 AM	07:00	7.68 pH	16.00 °C	730.71 µS/cm	0.12 mg/L		758.3 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:18 AM	07:30	7.68 pH	16.02 °C	730.48 µS/cm	0.12 mg/L		757.8 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:18 AM	08:00	7.68 pH	16.02 °C	730.39 µS/cm	0.11 mg/L		757.4 mV	189.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW12	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/27/2023 9:47:28 AM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH239.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 3 m** **Top of Screen: 7 m** **Total Depth: 7.6 m** **Initial Depth to Water: 2.2 m**	**Pump Type: Wasp pump** **Estimated Total Volume Pumped: 18000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/27/2023 9:47 AM	00:00	7.26 pH	13.08 °C	734.36 µS/cm	7.34 mg/L		402.7 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:47 AM	00:30	7.33 pH	13.33 °C	745.02 µS/cm	0.99 mg/L		675.1 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:48 AM	01:00	7.39 pH	13.69 °C	744.10 µS/cm	0.20 mg/L		787.6 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:48 AM	01:30	7.44 pH	14.04 °C	741.74 µS/cm	0.10 mg/L		841.5 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:49 AM	02:00	7.47 pH	14.30 °C	740.59 µS/cm	0.07 mg/L		847.7 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:49 AM	02:30	7.50 pH	14.49 °C	740.14 µS/cm	0.05 mg/L		856.6 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:50 AM	03:00	7.52 pH	14.66 °C	739.54 µS/cm	0.05 mg/L		862.4 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:50 AM	03:30	7.54 pH	14.78 °C	739.66 µS/cm	0.04 mg/L		868.2 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:51 AM	04:00	7.55 pH	14.89 °C	739.36 µS/cm	0.03 mg/L		860.9 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:51 AM	04:30	7.57 pH	14.98 °C	739.55 µS/cm	0.03 mg/L		854.7 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:52 AM	05:00	7.58 pH	15.04 °C	740.14 µS/cm	0.03 mg/L		856.7 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:52 AM	05:30	7.58 pH	15.11 °C	739.51 µS/cm	0.02 mg/L		847.0 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:53 AM	06:00	7.59 pH	15.15 °C	739.74 µS/cm	0.02 mg/L		842.3 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:53 AM	06:30	7.60 pH	15.21 °C	739.47 µS/cm	0.02 mg/L		835.7 mV	220.00 cm	2,000.0 ml/min

6/27/2023 9:54 AM	07:00	7.60 pH	15.23 °C	739.68 µS/cm	0.02 mg/L		831.4 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:54 AM	07:30	7.61 pH	15.26 °C	739.77 µS/cm	0.02 mg/L		826.1 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:55 AM	08:00	7.61 pH	15.30 °C	739.52 µS/cm	0.02 mg/L		821.8 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:55 AM	08:30	7.62 pH	15.31 °C	739.83 µS/cm	0.01 mg/L		819.9 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:56 AM	09:00	7.61 pH	15.34 °C	739.53 µS/cm	0.01 mg/L		813.7 mV	220.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW11	

Low-Flow Test Report:

Test Date / Time: 6/27/2023 10:41:25 AM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH240 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 5 m** **Top of Screen: 1 m** **Total Depth: 5.16 m** **Initial Depth to Water: 2.01 m**	**Pump Type: Wasp pump** **Estimated Total Volume Pumped: 25000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/27/2023 10:41 AM	00:00	8.13 pH	15.58 °C	658.47 µS/cm	3.39 mg/L		381.4 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:41 AM	00:30	8.18 pH	15.32 °C	650.86 µS/cm	0.64 mg/L		606.5 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:42 AM	01:00	8.21 pH	14.85 °C	648.15 µS/cm	0.17 mg/L		673.0 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:42 AM	01:30	8.23 pH	14.41 °C	648.09 µS/cm	0.10 mg/L		701.9 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:43 AM	02:00	8.25 pH	14.04 °C	647.94 µS/cm	0.07 mg/L		708.7 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:43 AM	02:30	8.26 pH	13.77 °C	648.18 µS/cm	0.06 mg/L		706.1 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:44 AM	03:00	8.28 pH	13.53 °C	648.41 µS/cm	0.04 mg/L		707.2 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:44 AM	03:30	8.29 pH	13.31 °C	648.04 µS/cm	0.04 mg/L		702.3 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:45 AM	04:00	8.30 pH	13.14 °C	647.65 µS/cm	0.03 mg/L		697.8 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:45 AM	04:30	8.32 pH	12.99 °C	642.06 µS/cm	0.03 mg/L		687.4 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:46 AM	05:00	8.33 pH	12.88 °C	640.96 µS/cm	0.02 mg/L		679.2 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:46 AM	05:30	8.34 pH	12.77 °C	640.37 µS/cm	0.02 mg/L		672.9 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:47 AM	06:00	8.35 pH	12.68 °C	640.48 µS/cm	0.02 mg/L		667.6 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:47 AM	06:30	8.36 pH	12.61 °C	639.75 µS/cm	0.01 mg/L		660.1 mV	201.00 cm	2,000.0 ml/min

6/27/2023 10:48 AM	07:00	8.36 pH	12.55 °C	639.61 µS/cm	0.01 mg/L		656.1 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:48 AM	07:30	8.37 pH	12.50 °C	638.76 µS/cm	0.01 mg/L		650.6 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:49 AM	08:00	8.38 pH	12.48 °C	638.55 µS/cm	0.01 mg/L		644.9 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:49 AM	08:30	8.38 pH	12.44 °C	637.86 µS/cm	0.01 mg/L		640.1 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:50 AM	09:00	8.39 pH	12.42 °C	637.42 µS/cm	0.01 mg/L		631.0 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:50 AM	09:30	8.40 pH	12.40 °C	636.92 µS/cm	0.00 mg/L		625.7 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:51 AM	10:00	8.40 pH	12.39 °C	636.17 µS/cm	0.00 mg/L		620.6 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:51 AM	10:30	8.41 pH	12.35 °C	636.17 µS/cm	0.00 mg/L		615.1 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:52 AM	11:00	8.41 pH	12.34 °C	635.90 µS/cm	0.00 mg/L		610.5 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:52 AM	11:30	8.42 pH	12.33 °C	635.72 µS/cm	0.00 mg/L		607.2 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:53 AM	12:00	8.42 pH	12.33 °C	635.14 µS/cm	0.00 mg/L		604.7 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:53 AM	12:30	8.43 pH	12.32 °C	634.63 µS/cm	0.00 mg/L		599.4 mV	201.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW11	

Low-Flow Test Report:

Test Date / Time: 6/27/2023 11:05:41 AM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH242 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 2.7 m** **Top of Screen: 1 m** **Total Depth: 3.74 m** **Initial Depth to Water: 2.07 m**	**Pump Type: Wasp pump** **Estimated Total Volume Pumped: 8000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:
Borehole purged dry. Sample taken from bucket

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/27/2023 11:05 AM	00:00	8.27 pH	13.36 °C	690.53 µS/cm	7.69 mg/L		300.6 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:06 AM	00:30	8.20 pH	13.35 °C	664.11 µS/cm	1.27 mg/L		488.2 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:06 AM	01:00	8.15 pH	13.27 °C	669.47 µS/cm	0.24 mg/L		539.7 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:07 AM	01:30	8.12 pH	13.31 °C	678.96 µS/cm	0.11 mg/L		561.2 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:07 AM	02:00	8.10 pH	13.45 °C	687.30 µS/cm	0.10 mg/L		569.1 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:08 AM	02:30	8.08 pH	13.59 °C	686.65 µS/cm	0.10 mg/L		575.2 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:08 AM	03:00	9.61 pH	13.77 °C	851.22 µS/cm	0.30 mg/L		606.4 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:09 AM	03:30	9.72 pH	13.95 °C	70.30 µS/cm	3.36 mg/L		605.7 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:09 AM	04:00	8.06 pH	14.08 °C	682.36 µS/cm	6.39 mg/L		576.0 mV	207.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:

EW15	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/27/2023 8:51:19 AM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH243.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 1 m** **Top of Screen: 5 m** **Total Depth: 5.88 m** **Initial Depth to Water: 3.66 m**	**Pump Type: Wasp pump** **Estimated Total Volume Pumped: 15533.333 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/27/2023 8:51 AM	00:00	8.14 pH	17.22 °C	500.60 µS/cm	6.94 mg/L		505.8 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:51 AM	00:30	8.13 pH	15.93 °C	581.47 µS/cm	2.32 mg/L		610.6 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:52 AM	01:00	8.12 pH	14.90 °C	611.52 µS/cm	0.90 mg/L		618.9 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:52 AM	01:30	8.10 pH	13.99 °C	596.46 µS/cm	0.59 mg/L		627.0 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:53 AM	02:00	8.08 pH	13.39 °C	592.75 µS/cm	0.49 mg/L		626.9 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:53 AM	02:30	8.05 pH	12.93 °C	601.13 µS/cm	0.46 mg/L		623.7 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:54 AM	03:00	8.02 pH	12.61 °C	612.82 µS/cm	0.41 mg/L		620.2 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:54 AM	03:30	7.98 pH	12.27 °C	630.77 µS/cm	0.35 mg/L		614.2 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:55 AM	04:00	7.95 pH	12.05 °C	634.33 µS/cm	0.22 mg/L		610.4 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:55 AM	04:30	7.93 pH	11.78 °C	613.86 µS/cm	0.11 mg/L		606.4 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:56 AM	05:00	7.89 pH	11.52 °C	614.16 µS/cm	0.07 mg/L		600.3 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:56 AM	05:30	7.86 pH	11.35 °C	606.58 µS/cm	0.05 mg/L		594.5 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:57 AM	06:00	7.83 pH	11.22 °C	598.04 µS/cm	0.03 mg/L		589.5 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:57 AM	06:30	7.80 pH	11.13 °C	590.04 µS/cm	0.03 mg/L		586.8 mV	366.00 cm	2,000.0 ml/min

6/27/2023 8:58 AM	07:00	7.76 pH	11.06 °C	581.74 µS/cm	0.02 mg/L		583.7 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:58 AM	07:30	7.73 pH	11.04 °C	574.44 µS/cm	0.02 mg/L		578.9 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:59 AM	07:46	7.71 pH	11.04 °C	574.11 µS/cm	0.02 mg/L		557.2 mV	366.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
Ew13	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/26/2023 2:40:52 PM
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH244.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 5.5 m** **Top of Screen: 4.5 m** **Total Depth: 9.3 m** **Initial Depth to Water: 3.39 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 51000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/26/2023 2:40 PM	00:00	7.19 pH	18.17 °C	626.84 µS/cm	3.20 mg/L		710.7 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:41 PM	00:30	6.95 pH	16.83 °C	646.00 µS/cm	1.08 mg/L		576.9 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:41 PM	01:00	6.74 pH	15.51 °C	663.11 µS/cm	0.61 mg/L		511.3 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:42 PM	01:30	6.59 pH	14.45 °C	676.17 µS/cm	0.50 mg/L		470.4 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:42 PM	02:00	6.46 pH	13.84 °C	681.78 µS/cm	0.45 mg/L		435.6 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:43 PM	02:30	6.36 pH	13.45 °C	687.34 µS/cm	0.42 mg/L		414.4 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:43 PM	03:00	6.28 pH	13.18 °C	691.93 µS/cm	0.38 mg/L		385.0 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:44 PM	03:30	6.23 pH	13.00 °C	694.63 µS/cm	0.35 mg/L		368.1 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:44 PM	04:00	6.18 pH	12.83 °C	693.21 µS/cm	0.33 mg/L		344.2 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:45 PM	04:30	6.15 pH	12.67 °C	691.16 µS/cm	0.32 mg/L		331.4 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:45 PM	05:00	6.13 pH	12.49 °C	689.65 µS/cm	0.30 mg/L		322.2 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:46 PM	05:30	6.12 pH	12.35 °C	690.64 µS/cm	0.27 mg/L		304.4 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:46 PM	06:00	6.12 pH	12.21 °C	691.25 µS/cm	0.26 mg/L		293.3 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:47 PM	06:30	6.11 pH	12.12 °C	692.60 µS/cm	0.25 mg/L		286.1 mV	339.00 cm	2,000.0 ml/min

6/26/2023 2:47 PM	07:00	6.11 pH	12.04 °C	694.33 µS/cm	0.26 mg/L		275.3 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:48 PM	07:30	6.10 pH	12.01 °C	695.96 µS/cm	0.28 mg/L		270.5 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:48 PM	08:00	6.10 pH	12.03 °C	698.40 µS/cm	0.30 mg/L		276.5 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:49 PM	08:30	6.09 pH	12.02 °C	700.13 µS/cm	0.32 mg/L		264.2 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:49 PM	09:00	6.08 pH	12.01 °C	699.81 µS/cm	0.31 mg/L		269.2 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:50 PM	09:30	6.08 pH	11.97 °C	699.97 µS/cm	0.29 mg/L		307.3 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:50 PM	10:00	6.09 pH	11.94 °C	699.87 µS/cm	0.28 mg/L		286.2 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:51 PM	10:30	6.07 pH	11.91 °C	701.35 µS/cm	0.28 mg/L		318.7 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:51 PM	11:00	6.06 pH	11.90 °C	702.38 µS/cm	0.28 mg/L		289.1 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:52 PM	11:30	6.05 pH	11.96 °C	705.58 µS/cm	0.30 mg/L		272.8 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:52 PM	12:00	6.04 pH	12.03 °C	707.34 µS/cm	0.32 mg/L		264.8 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:53 PM	12:30	6.04 pH	12.11 °C	708.13 µS/cm	0.33 mg/L		256.0 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:53 PM	13:00	6.04 pH	12.15 °C	708.81 µS/cm	0.35 mg/L		249.0 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:54 PM	13:30	6.03 pH	12.21 °C	710.17 µS/cm	0.35 mg/L		248.0 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:54 PM	14:00	6.03 pH	12.21 °C	709.44 µS/cm	0.35 mg/L		234.9 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:55 PM	14:30	6.03 pH	12.21 °C	709.30 µS/cm	0.35 mg/L		225.6 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:55 PM	15:00	6.02 pH	12.17 °C	709.08 µS/cm	0.35 mg/L		223.1 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:56 PM	15:30	6.02 pH	12.15 °C	708.87 µS/cm	0.35 mg/L		219.5 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:56 PM	16:00	6.02 pH	12.12 °C	708.75 µS/cm	0.37 mg/L		221.1 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:57 PM	16:30	6.02 pH	12.07 °C	708.32 µS/cm	0.37 mg/L		259.3 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:57 PM	17:00	6.01 pH	12.03 °C	709.15 µS/cm	0.37 mg/L		208.7 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:58 PM	17:30	6.00 pH	12.01 °C	711.47 µS/cm	0.38 mg/L		202.6 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:58 PM	18:00	6.00 pH	11.99 °C	710.90 µS/cm	0.37 mg/L		197.4 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:59 PM	18:30	5.99 pH	11.98 °C	710.81 µS/cm	0.37 mg/L		196.2 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:59 PM	19:00	5.98 pH	11.96 °C	710.97 µS/cm	0.37 mg/L		202.4 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:00 PM	19:30	5.99 pH	11.94 °C	712.25 µS/cm	0.37 mg/L		191.5 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:00 PM	20:00	5.98 pH	11.96 °C	713.62 µS/cm	0.36 mg/L		188.0 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:01 PM	20:30	5.97 pH	11.96 °C	712.89 µS/cm	0.36 mg/L		204.5 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:01 PM	21:00	5.97 pH	11.96 °C	711.11 µS/cm	0.35 mg/L		377.8 mV	339.00 cm	2,000.0 ml/min

6/26/2023 3:02 PM	21:30	5.96 pH	11.95 °C	712.47 µS/cm	0.35 mg/L		218.1 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:02 PM	22:00	5.95 pH	11.94 °C	712.77 µS/cm	0.34 mg/L		201.4 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:03 PM	22:30	5.94 pH	11.91 °C	713.26 µS/cm	0.35 mg/L		193.5 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:03 PM	23:00	5.94 pH	11.91 °C	713.37 µS/cm	0.35 mg/L		190.0 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:04 PM	23:30	5.93 pH	11.89 °C	714.02 µS/cm	0.34 mg/L		184.8 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:04 PM	24:00	5.93 pH	11.89 °C	714.36 µS/cm	0.34 mg/L		180.0 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:05 PM	24:30	5.92 pH	11.86 °C	714.64 µS/cm	0.35 mg/L		175.8 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:05 PM	25:00	5.92 pH	11.85 °C	714.16 µS/cm	0.36 mg/L		173.6 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:06 PM	25:30	5.92 pH	11.85 °C	713.97 µS/cm	0.36 mg/L		171.2 mV	339.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
Ew14	

Low-Flow Test Report:

Test Date / Time: 6/26/2023 1:12:52 PM
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH246.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 4.5 m** **Top of Screen: 3.5 m** **Total Depth: 7.87 m** **Initial Depth to Water: 3.45 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 108000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/26/2023 1:12 PM	00:00	8.51 pH	20.61 °C	572.58 µS/cm	4.97 mg/L		1,049.3 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:13 PM	00:30	8.84 pH	17.73 °C	600.16 µS/cm	2.13 mg/L		1,049.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:13 PM	01:00	8.84 pH	15.84 °C	592.46 µS/cm	1.40 mg/L		1,042.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:14 PM	01:30	8.91 pH	14.67 °C	603.14 µS/cm	1.18 mg/L		1,028.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:14 PM	02:00	8.98 pH	13.86 °C	610.55 µS/cm	1.15 mg/L		1,009.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:15 PM	02:30	7.48 pH	13.27 °C	615.60 µS/cm	1.14 mg/L		1,076.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:15 PM	03:00	7.42 pH	12.90 °C	617.96 µS/cm	1.13 mg/L		1,068.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:16 PM	03:30	7.37 pH	12.68 °C	619.65 µS/cm	1.12 mg/L		1,071.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:16 PM	04:00	7.32 pH	12.55 °C	620.02 µS/cm	1.15 mg/L		1,065.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:17 PM	04:30	7.15 pH	12.46 °C	619.79 µS/cm	1.15 mg/L		1,058.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:17 PM	05:00	7.18 pH	12.42 °C	619.21 µS/cm	1.15 mg/L		1,037.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:18 PM	05:30	7.14 pH	12.36 °C	619.18 µS/cm	1.14 mg/L		1,011.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:18 PM	06:00	6.99 pH	12.35 °C	618.45 µS/cm	1.14 mg/L		999.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:19 PM	06:30	7.02 pH	12.31 °C	618.74 µS/cm	1.14 mg/L		981.0 mV	345.00 cm	2,000.0 ml/min

6/26/2023 1:19 PM	07:00	6.99 pH	12.29 °C	618.53 µS/cm	1.14 mg/L		977.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:20 PM	07:30	6.98 pH	12.27 °C	619.17 µS/cm	1.13 mg/L		975.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:20 PM	08:00	6.95 pH	12.26 °C	620.62 µS/cm	1.13 mg/L		962.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:21 PM	08:30	6.93 pH	12.25 °C	621.02 µS/cm	1.12 mg/L		965.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:21 PM	09:00	6.92 pH	12.21 °C	621.10 µS/cm	1.12 mg/L		973.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:22 PM	09:30	6.93 pH	12.19 °C	621.24 µS/cm	1.13 mg/L		981.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:22 PM	10:00	6.97 pH	12.17 °C	621.95 µS/cm	1.13 mg/L		978.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:23 PM	10:30	6.98 pH	12.13 °C	623.00 µS/cm	1.13 mg/L		960.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:23 PM	11:00	6.98 pH	12.12 °C	622.64 µS/cm	1.13 mg/L		966.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:24 PM	11:30	6.98 pH	12.08 °C	623.90 µS/cm	1.12 mg/L		938.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:24 PM	12:00	6.97 pH	12.07 °C	624.14 µS/cm	1.12 mg/L		938.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:25 PM	12:30	6.95 pH	12.07 °C	624.38 µS/cm	1.12 mg/L		862.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:25 PM	13:00	6.93 pH	12.05 °C	625.13 µS/cm	1.12 mg/L		819.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:26 PM	13:30	6.91 pH	12.05 °C	625.98 µS/cm	1.12 mg/L		839.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:26 PM	14:00	6.89 pH	12.04 °C	626.38 µS/cm	1.12 mg/L		796.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:27 PM	14:30	6.88 pH	12.07 °C	625.83 µS/cm	1.12 mg/L		809.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:27 PM	15:00	6.86 pH	12.08 °C	625.96 µS/cm	1.13 mg/L		803.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:28 PM	15:30	6.84 pH	12.10 °C	627.42 µS/cm	1.13 mg/L		770.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:28 PM	16:00	6.82 pH	12.12 °C	625.09 µS/cm	1.13 mg/L		782.3 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:29 PM	16:30	6.80 pH	12.15 °C	628.02 µS/cm	1.13 mg/L		771.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:29 PM	17:00	6.78 pH	12.17 °C	628.07 µS/cm	1.14 mg/L		781.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:30 PM	17:30	6.74 pH	12.21 °C	627.89 µS/cm	1.14 mg/L		695.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:30 PM	18:00	6.72 pH	12.21 °C	627.88 µS/cm	1.14 mg/L		681.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:31 PM	18:30	6.72 pH	12.21 °C	627.74 µS/cm	1.14 mg/L		674.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:31 PM	19:00	6.71 pH	12.21 °C	627.17 µS/cm	1.14 mg/L		671.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:32 PM	19:30	6.70 pH	12.14 °C	626.42 µS/cm	1.14 mg/L		670.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:32 PM	20:00	6.69 pH	12.04 °C	626.35 µS/cm	1.14 mg/L		684.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:33 PM	20:30	6.69 pH	11.98 °C	626.23 µS/cm	1.14 mg/L		716.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:33 PM	21:00	6.68 pH	11.93 °C	626.01 µS/cm	1.14 mg/L		710.4 mV	345.00 cm	2,000.0 ml/min

6/26/2023 1:34 PM	21:30	6.66 pH	11.87 °C	626.27 µS/cm	1.15 mg/L		685.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:34 PM	22:00	6.64 pH	11.84 °C	626.10 µS/cm	1.15 mg/L		713.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:35 PM	22:30	6.64 pH	11.80 °C	625.74 µS/cm	1.15 mg/L		697.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:35 PM	23:00	6.63 pH	11.76 °C	626.09 µS/cm	1.16 mg/L		678.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:36 PM	23:30	6.62 pH	11.75 °C	626.86 µS/cm	1.16 mg/L		679.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:36 PM	24:00	6.61 pH	11.77 °C	627.29 µS/cm	1.16 mg/L		708.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:37 PM	24:30	6.61 pH	11.80 °C	627.50 µS/cm	1.17 mg/L		768.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:37 PM	25:00	6.59 pH	11.85 °C	627.70 µS/cm	1.17 mg/L		708.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:38 PM	25:30	6.59 pH	11.85 °C	626.49 µS/cm	1.17 mg/L		703.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:38 PM	26:00	6.58 pH	11.84 °C	625.46 µS/cm	1.17 mg/L		714.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:39 PM	26:30	6.58 pH	11.80 °C	625.04 µS/cm	1.17 mg/L		735.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:39 PM	27:00	6.59 pH	11.75 °C	624.31 µS/cm	1.17 mg/L		773.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:40 PM	27:30	6.58 pH	11.72 °C	624.15 µS/cm	1.17 mg/L		801.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:40 PM	28:00	6.57 pH	11.71 °C	623.26 µS/cm	1.17 mg/L		805.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:41 PM	28:30	6.57 pH	11.71 °C	622.92 µS/cm	1.18 mg/L		770.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:41 PM	29:00	6.57 pH	11.71 °C	622.40 µS/cm	1.18 mg/L		804.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:42 PM	29:30	6.57 pH	11.67 °C	622.06 µS/cm	1.18 mg/L		846.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:42 PM	30:00	6.58 pH	11.65 °C	621.60 µS/cm	1.18 mg/L		872.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:43 PM	30:30	6.57 pH	11.63 °C	621.27 µS/cm	1.18 mg/L		817.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:43 PM	31:00	6.55 pH	11.62 °C	621.39 µS/cm	1.18 mg/L		812.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:44 PM	31:30	6.57 pH	11.63 °C	621.00 µS/cm	1.19 mg/L		878.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:44 PM	32:00	6.57 pH	11.64 °C	620.45 µS/cm	1.19 mg/L		912.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:45 PM	32:30	6.58 pH	11.65 °C	619.86 µS/cm	1.19 mg/L		879.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:45 PM	33:00	6.59 pH	11.62 °C	618.99 µS/cm	1.19 mg/L		906.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:46 PM	33:30	6.58 pH	11.61 °C	618.87 µS/cm	1.19 mg/L		908.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:46 PM	34:00	6.59 pH	11.60 °C	618.20 µS/cm	1.19 mg/L		908.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:47 PM	34:30	6.57 pH	11.61 °C	618.15 µS/cm	1.20 mg/L		884.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:47 PM	35:00	6.56 pH	11.62 °C	618.30 µS/cm	1.19 mg/L		871.3 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:48 PM	35:30	6.54 pH	11.62 °C	617.22 µS/cm	1.19 mg/L		846.6 mV	345.00 cm	2,000.0 ml/min

6/26/2023 1:48 PM	36:00	6.53 pH	11.62 °C	617.10 µS/cm	1.19 mg/L		831.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:49 PM	36:30	6.54 pH	11.62 °C	616.77 µS/cm	1.19 mg/L		912.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:49 PM	37:00	6.52 pH	11.64 °C	616.33 µS/cm	1.19 mg/L		861.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:50 PM	37:30	6.50 pH	11.66 °C	616.17 µS/cm	1.19 mg/L		802.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:50 PM	38:00	6.42 pH	11.67 °C	615.01 µS/cm	1.19 mg/L		891.3 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:51 PM	38:30	6.42 pH	11.67 °C	614.85 µS/cm	1.18 mg/L		823.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:51 PM	39:00	6.42 pH	11.69 °C	614.96 µS/cm	1.19 mg/L		755.3 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:52 PM	39:30	6.41 pH	11.70 °C	614.90 µS/cm	1.18 mg/L		709.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:52 PM	40:00	6.40 pH	11.75 °C	614.94 µS/cm	1.18 mg/L		671.3 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:53 PM	40:30	6.36 pH	11.78 °C	614.56 µS/cm	1.18 mg/L		562.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:53 PM	41:00	6.33 pH	11.82 °C	614.32 µS/cm	1.18 mg/L		613.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:54 PM	41:30	6.33 pH	11.80 °C	613.20 µS/cm	1.18 mg/L		597.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:54 PM	42:00	6.33 pH	11.78 °C	612.55 µS/cm	1.18 mg/L		570.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:55 PM	42:30	6.32 pH	11.75 °C	611.88 µS/cm	1.17 mg/L		549.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:55 PM	43:00	6.31 pH	11.75 °C	611.91 µS/cm	1.17 mg/L		523.3 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:56 PM	43:30	6.30 pH	11.75 °C	611.73 µS/cm	1.17 mg/L		503.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:56 PM	44:00	6.29 pH	11.74 °C	610.49 µS/cm	1.17 mg/L		486.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:57 PM	44:30	6.28 pH	11.71 °C	610.93 µS/cm	1.17 mg/L		471.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:57 PM	45:00	6.27 pH	11.68 °C	610.00 µS/cm	1.17 mg/L		449.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:58 PM	45:30	6.27 pH	11.66 °C	609.51 µS/cm	1.16 mg/L		439.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:58 PM	46:00	6.26 pH	11.64 °C	609.05 µS/cm	1.16 mg/L		418.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:59 PM	46:30	6.25 pH	11.61 °C	608.35 µS/cm	1.16 mg/L		405.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:59 PM	47:00	6.24 pH	11.58 °C	608.08 µS/cm	1.16 mg/L		394.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:00 PM	47:30	6.23 pH	11.57 °C	607.69 µS/cm	1.16 mg/L		383.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:00 PM	48:00	6.22 pH	11.59 °C	607.18 µS/cm	1.16 mg/L		373.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:01 PM	48:30	6.21 pH	11.60 °C	606.77 µS/cm	1.16 mg/L		365.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:01 PM	49:00	6.20 pH	11.62 °C	605.42 µS/cm	1.15 mg/L		364.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:02 PM	49:30	6.19 pH	11.59 °C	604.87 µS/cm	1.15 mg/L		340.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:02 PM	50:00	6.18 pH	11.57 °C	605.87 µS/cm	1.15 mg/L		328.9 mV	345.00 cm	2,000.0 ml/min

6/26/2023 2:03 PM	50:30	6.17 pH	11.57 °C	606.24 µS/cm	1.15 mg/L		319.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:03 PM	51:00	6.16 pH	11.57 °C	605.13 µS/cm	1.14 mg/L		311.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:04 PM	51:30	6.16 pH	11.57 °C	604.75 µS/cm	1.15 mg/L		307.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:04 PM	52:00	6.14 pH	11.59 °C	604.75 µS/cm	1.15 mg/L		340.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:05 PM	52:30	6.15 pH	11.66 °C	604.87 µS/cm	1.14 mg/L		349.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:05 PM	53:00	6.15 pH	11.71 °C	605.53 µS/cm	1.14 mg/L		341.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:06 PM	53:30	6.14 pH	11.80 °C	606.22 µS/cm	1.14 mg/L		342.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:06 PM	54:00	6.15 pH	11.90 °C	606.52 µS/cm	1.14 mg/L		337.0 mV	345.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
Ew11	

Low-Flow Test Report:

Test Date / Time: 6/28/2023 10:23:49 AM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH248.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 3 m** **Top of Screen: 6.5 m** **Total Depth: 9.01 m** **Initial Depth to Water: 6.3 m**	**Pump Type: Wasp pump** **Estimated Total Volume Pumped: 18000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/28/2023 10:23 AM	00:00	8.89 pH	17.77 °C	8.78 µS/cm	9.20 mg/L		699.1 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:24 AM	00:30	8.28 pH	17.72 °C	870.21 µS/cm	8.82 mg/L		799.4 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:24 AM	01:00	8.10 pH	15.72 °C	896.27 µS/cm	2.99 mg/L		862.1 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:25 AM	01:30	7.99 pH	14.63 °C	900.27 µS/cm	0.78 mg/L		878.4 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:25 AM	02:00	7.93 pH	13.85 °C	902.18 µS/cm	0.27 mg/L		886.2 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:26 AM	02:30	7.89 pH	13.27 °C	916.86 µS/cm	0.20 mg/L		886.9 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:26 AM	03:00	7.85 pH	12.90 °C	915.85 µS/cm	0.17 mg/L		885.2 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:27 AM	03:30	7.83 pH	12.60 °C	923.87 µS/cm	0.17 mg/L		887.1 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:27 AM	04:00	7.81 pH	12.44 °C	947.35 µS/cm	0.18 mg/L		886.7 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:28 AM	04:30	7.79 pH	12.26 °C	967.43 µS/cm	0.19 mg/L		885.5 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:28 AM	05:00	7.78 pH	12.12 °C	981.52 µS/cm	0.21 mg/L		886.3 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:29 AM	05:30	7.77 pH	12.05 °C	984.66 µS/cm	0.21 mg/L		887.4 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:29 AM	06:00	7.76 pH	11.99 °C	985.81 µS/cm	0.21 mg/L		885.3 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:30 AM	06:30	7.75 pH	11.96 °C	991.52 µS/cm	0.21 mg/L		894.1 mV	630.00 cm	2,000.0 ml/min

6/28/2023 10:30 AM	07:00	7.74 pH	11.94 °C	991.99 µS/cm	0.23 mg/L		885.6 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:31 AM	07:30	7.73 pH	11.91 °C	993.72 µS/cm	0.25 mg/L		884.5 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:31 AM	08:00	7.73 pH	11.89 °C	994.82 µS/cm	0.28 mg/L		886.4 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:32 AM	08:30	7.73 pH	11.88 °C	995.76 µS/cm	0.32 mg/L		885.0 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:32 AM	09:00	7.72 pH	11.86 °C	995.45 µS/cm	0.32 mg/L		884.0 mV	630.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/27/2023 9:18:05 AM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH249.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 4.5 m** **Top of Screen: 3.5 m** **Total Depth: 7.65 m** **Initial Depth to Water: 4.85 m**	**Pump Type: Wasp pump** **Estimated Total Volume Pumped: 17000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/27/2023 9:18 AM	00:00	7.97 pH	13.36 °C	929.98 µS/cm	6.53 mg/L		455.0 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:18 AM	00:30	7.80 pH	13.03 °C	739.67 µS/cm	2.35 mg/L		559.1 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:19 AM	01:00	7.68 pH	12.86 °C	742.61 µS/cm	1.11 mg/L		561.6 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:19 AM	01:30	7.59 pH	12.72 °C	743.11 µS/cm	0.47 mg/L		575.3 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:20 AM	02:00	7.52 pH	12.63 °C	743.93 µS/cm	0.30 mg/L		573.8 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:20 AM	02:30	7.47 pH	12.58 °C	745.81 µS/cm	0.26 mg/L		560.6 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:21 AM	03:00	7.42 pH	12.53 °C	745.71 µS/cm	0.23 mg/L		557.6 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:21 AM	03:30	7.39 pH	12.49 °C	746.44 µS/cm	0.17 mg/L		548.5 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:22 AM	04:00	7.36 pH	12.46 °C	746.82 µS/cm	0.15 mg/L		541.0 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:22 AM	04:30	7.34 pH	12.44 °C	747.02 µS/cm	0.13 mg/L		534.8 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:23 AM	05:00	7.32 pH	12.40 °C	746.98 µS/cm	0.11 mg/L		529.0 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:23 AM	05:30	7.31 pH	12.26 °C	749.67 µS/cm	0.09 mg/L		524.4 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:24 AM	06:00	7.30 pH	12.25 °C	748.48 µS/cm	0.08 mg/L		521.5 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:24 AM	06:30	7.29 pH	12.12 °C	768.21 µS/cm	0.06 mg/L		518.4 mV	485.00 cm	2,000.0 ml/min

6/27/2023 9:25 AM	07:00	7.28 pH	11.99 °C	779.70 µS/cm	0.05 mg/L		516.9 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:25 AM	07:30	7.28 pH	11.99 °C	777.67 µS/cm	0.05 mg/L		511.7 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:26 AM	08:00	7.28 pH	11.96 °C	778.69 µS/cm	0.03 mg/L		507.3 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:26 AM	08:30	7.28 pH	11.94 °C	777.57 µS/cm	0.04 mg/L		503.6 mV	485.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
Ew14	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 28/06/2023 10:40:45
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH250.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 9.5 m** **Top of Screen: 7.5 m** **Total Depth: 9.07 m** **Initial Depth to Water: 3.53 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 20000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
28/06/2023 10:40	00:00	7.60 pH	16.21 °C	489.48 µS/cm	4.96 mg/L		32.0 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:41	00:30	7.59 pH	14.67 °C	503.53 µS/cm	3.91 mg/L		21.4 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:41	01:00	7.58 pH	13.99 °C	510.49 µS/cm	3.56 mg/L		17.2 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:42	01:30	7.56 pH	13.58 °C	511.83 µS/cm	3.37 mg/L		15.5 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:42	02:00	7.55 pH	13.35 °C	513.02 µS/cm	3.25 mg/L		13.8 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:43	02:30	7.55 pH	13.26 °C	515.60 µS/cm	3.22 mg/L		13.2 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:43	03:00	7.55 pH	13.26 °C	518.07 µS/cm	3.22 mg/L		13.1 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:44	03:30	7.55 pH	13.30 °C	519.99 µS/cm	3.23 mg/L		12.8 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:44	04:00	7.55 pH	13.31 °C	522.29 µS/cm	3.27 mg/L		12.9 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:45	04:30	7.56 pH	13.31 °C	524.13 µS/cm	3.35 mg/L		13.0 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:45	05:00	7.56 pH	13.32 °C	524.25 µS/cm	3.39 mg/L		13.1 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:46	05:30	7.56 pH	13.35 °C	525.48 µS/cm	3.40 mg/L		13.2 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:46	06:00	7.56 pH	13.37 °C	516.65 µS/cm	3.37 mg/L		20.4 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:47	06:30	7.55 pH	13.40 °C	516.66 µS/cm	3.32 mg/L		15.7 mV	353.00 cm	2,000.0 ml/min

28/06/2023 10:47	07:00	7.55 pH	13.42 °C	523.65 µS/cm	3.24 mg/L		14.4 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:48	07:30	7.54 pH	13.42 °C	522.66 µS/cm	3.14 mg/L		13.6 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:48	08:00	7.54 pH	13.40 °C	513.37 µS/cm	3.06 mg/L		20.6 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:49	08:30	7.54 pH	13.37 °C	513.19 µS/cm	2.98 mg/L		15.3 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:49	09:00	7.53 pH	13.34 °C	520.02 µS/cm	2.90 mg/L		13.9 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:50	09:30	7.53 pH	13.35 °C	519.65 µS/cm	2.84 mg/L		13.2 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:50	10:00	7.52 pH	13.33 °C	511.13 µS/cm	2.79 mg/L		12.9 mV	353.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 27/06/2023 14:33:00
Project: GCRE 2 (2)
Operator Name: JP

Location Name: S2-BH252.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 3 m** **Top of Screen: 6 m** **Total Depth: 8.63 m** **Initial Depth to Water: 5.41 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 14000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
27/06/2023 14:33	00:00	7.64 pH	14.03 °C	515.00 µS/cm	8.97 mg/L		32.8 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:33	00:30	7.32 pH	13.21 °C	496.57 µS/cm	6.86 mg/L		30.6 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:34	01:00	7.23 pH	12.56 °C	493.06 µS/cm	2.83 mg/L		22.2 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:34	01:30	7.18 pH	12.34 °C	494.10 µS/cm	1.42 mg/L		18.2 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:35	02:00	7.18 pH	12.02 °C	491.63 µS/cm	0.91 mg/L		15.6 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:35	02:30	7.17 pH	11.75 °C	487.07 µS/cm	0.72 mg/L		14.0 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:36	03:00	7.13 pH	11.61 °C	474.80 µS/cm	0.62 mg/L		13.8 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:36	03:30	7.10 pH	11.56 °C	465.13 µS/cm	0.57 mg/L		13.3 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:37	04:00	7.09 pH	11.55 °C	462.30 µS/cm	0.56 mg/L		13.1 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:37	04:30	7.10 pH	11.47 °C	468.56 µS/cm	0.56 mg/L		12.4 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:38	05:00	7.11 pH	11.43 °C	475.10 µS/cm	0.52 mg/L		11.9 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:38	05:30	7.12 pH	11.39 °C	475.41 µS/cm	0.47 mg/L		11.5 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:39	06:00	7.11 pH	11.33 °C	472.88 µS/cm	0.44 mg/L		11.3 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:39	06:30	7.11 pH	11.26 °C	470.75 µS/cm	0.42 mg/L		10.9 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:40	07:00	7.10 pH	11.21 °C	467.33 µS/cm	0.41 mg/L		11.0 mV	541.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
Ew18	

Low-Flow Test Report:

Test Date / Time: 27/07/2023 10:52:57
Project: GCRE 2
Operator Name: JP

Location Name: S1-BH118 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 7 m** **Top of Screen: 8 m** **Total Depth: 14.97 m** **Initial Depth to Water: 6.93 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 25000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
27/07/2023 10:52	00:00	7.21 pH	15.96 °C	390.29 µS/cm	5.63 mg/L		-39.4 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:53	00:30	7.13 pH	14.74 °C	452.31 µS/cm	2.34 mg/L		-40.9 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:53	01:00	7.09 pH	13.68 °C	434.84 µS/cm	0.97 mg/L		-39.0 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:54	01:30	7.07 pH	13.11 °C	437.08 µS/cm	0.49 mg/L		-38.3 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:54	02:00	7.06 pH	12.71 °C	436.15 µS/cm	0.35 mg/L		-37.7 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:55	02:30	7.05 pH	12.43 °C	432.07 µS/cm	0.33 mg/L		-36.8 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:55	03:00	7.03 pH	12.24 °C	423.57 µS/cm	0.31 mg/L		-35.8 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:56	03:30	7.03 pH	12.12 °C	425.23 µS/cm	0.30 mg/L		-49.7 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:56	04:00	7.02 pH	12.07 °C	425.80 µS/cm	0.31 mg/L		-37.3 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:57	04:30	7.02 pH	12.02 °C	426.66 µS/cm	0.32 mg/L		-50.4 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:57	05:00	7.02 pH	12.02 °C	424.50 µS/cm	0.34 mg/L		-52.1 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:58	05:30	7.02 pH	12.03 °C	418.98 µS/cm	0.40 mg/L		-38.7 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:58	06:00	7.01 pH	11.90 °C	409.31 µS/cm	0.54 mg/L		-34.3 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:59	06:30	7.01 pH	11.82 °C	408.87 µS/cm	0.62 mg/L		-32.3 mV	693.00 cm	2,000.0 ml/min

27/07/2023 10:59	07:00	7.01 pH	11.75 °C	411.16 µS/cm	0.59 mg/L		-45.1 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:00	07:30	7.00 pH	11.68 °C	411.53 µS/cm	0.47 mg/L		-33.5 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:00	08:00	6.99 pH	11.64 °C	404.49 µS/cm	0.37 mg/L		-31.7 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:01	08:30	6.98 pH	11.58 °C	395.24 µS/cm	0.30 mg/L		-30.2 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:01	09:00	6.96 pH	11.56 °C	384.85 µS/cm	0.26 mg/L		-28.8 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:02	09:30	6.94 pH	11.52 °C	375.67 µS/cm	0.23 mg/L		-27.5 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:02	10:00	6.93 pH	11.52 °C	367.62 µS/cm	0.22 mg/L		-37.8 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:03	10:30	6.91 pH	11.51 °C	359.87 µS/cm	0.21 mg/L		-27.2 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:03	11:00	6.90 pH	11.52 °C	355.23 µS/cm	0.22 mg/L		-25.2 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:04	11:30	6.89 pH	11.56 °C	351.63 µS/cm	0.23 mg/L		-26.6 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:04	12:00	6.89 pH	11.57 °C	348.39 µS/cm	0.23 mg/L		-25.7 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:05	12:30	6.88 pH	11.61 °C	345.37 µS/cm	0.22 mg/L		-24.9 mV	693.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 7/27/2023 10:52:15 AM
Project: GCRE 2
Operator Name: KW

Location Name: S1-BH119.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 7 m** **Top of Screen: 8 m** **Total Depth: 15 m** **Initial Depth to Water: 7.97 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 18000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/27/2023 10:52 AM	00:00	8.12 pH	14.58 °C	397.71 µS/cm	1.04 mg/L		375.3 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:52 AM	00:30	8.04 pH	13.86 °C	402.79 µS/cm	0.30 mg/L		577.3 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:53 AM	01:00	7.98 pH	13.32 °C	408.37 µS/cm	0.18 mg/L		681.8 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:53 AM	01:30	7.93 pH	12.91 °C	410.43 µS/cm	0.14 mg/L		771.7 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:54 AM	02:00	7.89 pH	12.71 °C	409.68 µS/cm	0.12 mg/L		829.5 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:54 AM	02:30	7.86 pH	12.51 °C	407.79 µS/cm	0.11 mg/L		858.6 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:55 AM	03:00	7.83 pH	12.40 °C	404.10 µS/cm	0.10 mg/L		877.8 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:55 AM	03:30	7.81 pH	12.31 °C	398.98 µS/cm	0.09 mg/L		894.2 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:56 AM	04:00	7.78 pH	12.28 °C	394.41 µS/cm	0.08 mg/L		893.9 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:56 AM	04:30	7.77 pH	12.24 °C	390.72 µS/cm	0.08 mg/L		898.4 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:57 AM	05:00	7.75 pH	12.21 °C	388.45 µS/cm	0.07 mg/L		902.9 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:57 AM	05:30	7.74 pH	12.21 °C	387.02 µS/cm	0.07 mg/L		903.6 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:58 AM	06:00	7.73 pH	12.19 °C	386.05 µS/cm	0.06 mg/L		904.5 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:58 AM	06:30	7.72 pH	12.17 °C	385.37 µS/cm	0.06 mg/L		905.7 mV	797.00 cm	2,000.0 ml/min

7/27/2023 10:59 AM	07:00	7.71 pH	12.14 °C	384.93 µS/cm	0.05 mg/L		906.2 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:59 AM	07:30	7.70 pH	12.14 °C	384.78 µS/cm	0.05 mg/L		905.8 mV	797.00 cm	2,000.0 ml/min
7/27/2023 11:00 AM	08:00	7.69 pH	12.17 °C	385.33 µS/cm	0.05 mg/L		907.6 mV	797.00 cm	2,000.0 ml/min
7/27/2023 11:00 AM	08:30	7.69 pH	12.20 °C	386.02 µS/cm	0.05 mg/L		908.1 mV	797.00 cm	2,000.0 ml/min
7/27/2023 11:01 AM	09:00	7.68 pH	12.21 °C	386.09 µS/cm	0.04 mg/L		908.4 mV	797.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW3	

Low-Flow Test Report:

Test Date / Time: 7/27/2023 11:20:03 AM
Project: GCRE 2
Operator Name: KW

Location Name: S1-BH119.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 2 m** **Top of Screen: 2 m** **Total Depth: 4 m** **Initial Depth to Water: 2.67 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 18000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/27/2023 11:20 AM	00:00	7.56 pH	16.47 °C	705.99 µS/cm	1.65 mg/L		292.6 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:20 AM	00:30	7.35 pH	15.75 °C	708.15 µS/cm	0.36 mg/L		583.2 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:21 AM	01:00	7.22 pH	15.22 °C	700.72 µS/cm	0.15 mg/L		748.8 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:21 AM	01:30	7.16 pH	14.82 °C	683.30 µS/cm	0.10 mg/L		856.2 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:22 AM	02:00	7.14 pH	14.54 °C	672.45 µS/cm	0.06 mg/L		897.7 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:22 AM	02:30	7.12 pH	14.33 °C	665.16 µS/cm	0.05 mg/L		912.4 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:23 AM	03:00	7.12 pH	14.20 °C	659.41 µS/cm	0.04 mg/L		922.1 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:23 AM	03:30	7.11 pH	14.11 °C	663.00 µS/cm	0.03 mg/L		926.1 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:24 AM	04:00	7.10 pH	14.04 °C	662.70 µS/cm	0.02 mg/L		926.7 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:24 AM	04:30	7.10 pH	13.99 °C	659.51 µS/cm	0.02 mg/L		928.1 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:25 AM	05:00	7.10 pH	13.95 °C	655.67 µS/cm	0.01 mg/L		927.2 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:25 AM	05:30	7.11 pH	13.91 °C	648.05 µS/cm	0.01 mg/L		929.4 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:26 AM	06:00	7.11 pH	13.93 °C	645.66 µS/cm	0.01 mg/L		928.7 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:26 AM	06:30	7.11 pH	13.95 °C	647.42 µS/cm	0.01 mg/L		929.6 mV	267.00 cm	2,000.0 ml/min

7/27/2023 11:27 AM	07:00	7.11 pH	13.97 °C	648.78 µS/cm	0.01 mg/L		929.3 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:27 AM	07:30	7.11 pH	14.01 °C	643.40 µS/cm	0.01 mg/L		927.2 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:28 AM	08:00	7.12 pH	14.04 °C	639.17 µS/cm	0.01 mg/L		927.4 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:28 AM	08:30	7.12 pH	14.06 °C	634.67 µS/cm	0.01 mg/L		927.2 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:29 AM	09:00	7.13 pH	14.07 °C	631.69 µS/cm	0.00 mg/L		927.3 mV	267.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW4	

Low-Flow Test Report:

Test Date / Time: 7/27/2023 2:21:19 PM
Project: GCRE 2
Operator Name: KW

Location Name: S1-BH120 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 8 m** **Top of Screen: 12 m** **Total Depth: 20.54 m** **Initial Depth to Water: 9.1 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 120200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Windy cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/27/2023 2:21 PM	00:00	8.08 pH	15.35 °C	297.37 µS/cm	0.32 mg/L		339.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:21 PM	00:36	8.02 pH	13.96 °C	302.85 µS/cm	0.14 mg/L		565.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:22 PM	01:06	7.98 pH	13.22 °C	305.57 µS/cm	0.12 mg/L		707.9 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:22 PM	01:36	7.94 pH	12.77 °C	306.46 µS/cm	0.11 mg/L		830.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:23 PM	02:06	7.90 pH	12.50 °C	306.96 µS/cm	0.11 mg/L		888.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:23 PM	02:36	7.87 pH	12.35 °C	307.20 µS/cm	0.11 mg/L		903.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:24 PM	03:06	7.84 pH	12.24 °C	307.57 µS/cm	0.11 mg/L		945.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:24 PM	03:36	7.81 pH	12.17 °C	307.21 µS/cm	0.11 mg/L		959.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:25 PM	04:06	7.79 pH	12.12 °C	305.55 µS/cm	0.11 mg/L		977.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:25 PM	04:36	7.75 pH	12.08 °C	302.61 µS/cm	0.12 mg/L		988.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:26 PM	05:06	7.75 pH	12.04 °C	301.90 µS/cm	0.13 mg/L		979.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:26 PM	05:36	7.74 pH	12.03 °C	301.29 µS/cm	0.17 mg/L		943.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:27 PM	06:06	7.73 pH	12.04 °C	301.16 µS/cm	0.22 mg/L		940.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:27 PM	06:36	7.71 pH	12.07 °C	301.09 µS/cm	0.26 mg/L		938.7 mV	910.00 cm	2,000.0 ml/min

7/27/2023 2:28 PM	07:06	7.70 pH	12.08 °C	301.47 µS/cm	0.28 mg/L		958.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:28 PM	07:36	7.68 pH	12.09 °C	301.93 µS/cm	0.27 mg/L		937.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:29 PM	08:06	7.67 pH	12.17 °C	303.48 µS/cm	0.25 mg/L		961.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:29 PM	08:36	7.65 pH	12.31 °C	304.50 µS/cm	0.22 mg/L		935.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:30 PM	09:06	7.64 pH	12.40 °C	305.07 µS/cm	0.20 mg/L		933.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:30 PM	09:36	7.63 pH	12.49 °C	305.59 µS/cm	0.18 mg/L		957.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:31 PM	10:06	7.63 pH	12.52 °C	305.42 µS/cm	0.16 mg/L		948.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:31 PM	10:36	7.62 pH	12.48 °C	305.05 µS/cm	0.14 mg/L		958.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:32 PM	11:06	7.62 pH	12.44 °C	305.39 µS/cm	0.12 mg/L		944.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:32 PM	11:36	7.61 pH	12.43 °C	306.07 µS/cm	0.11 mg/L		921.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:33 PM	12:06	7.61 pH	12.43 °C	306.13 µS/cm	0.10 mg/L		953.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:33 PM	12:36	7.60 pH	12.40 °C	306.13 µS/cm	0.09 mg/L		930.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:34 PM	13:06	7.60 pH	12.39 °C	306.56 µS/cm	0.09 mg/L		950.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:34 PM	13:36	7.60 pH	12.37 °C	306.70 µS/cm	0.08 mg/L		927.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:35 PM	14:06	7.59 pH	12.36 °C	306.66 µS/cm	0.07 mg/L		928.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:35 PM	14:36	7.59 pH	12.34 °C	306.96 µS/cm	0.07 mg/L		956.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:36 PM	15:06	7.59 pH	12.35 °C	307.54 µS/cm	0.06 mg/L		921.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:36 PM	15:36	7.59 pH	12.34 °C	307.44 µS/cm	0.05 mg/L		947.9 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:37 PM	16:06	7.59 pH	12.31 °C	307.81 µS/cm	0.05 mg/L		926.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:37 PM	16:36	7.58 pH	12.32 °C	307.99 µS/cm	0.05 mg/L		942.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:38 PM	17:06	7.58 pH	12.33 °C	307.94 µS/cm	0.04 mg/L		926.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:38 PM	17:36	7.58 pH	12.31 °C	307.75 µS/cm	0.04 mg/L		921.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:39 PM	18:06	7.58 pH	12.31 °C	307.80 µS/cm	0.03 mg/L		945.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:39 PM	18:36	7.58 pH	12.31 °C	307.53 µS/cm	0.03 mg/L		922.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:40 PM	19:06	7.58 pH	12.30 °C	307.42 µS/cm	0.02 mg/L		921.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:40 PM	19:36	7.58 pH	12.30 °C	307.61 µS/cm	0.02 mg/L		942.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:41 PM	20:06	7.57 pH	12.31 °C	307.67 µS/cm	0.02 mg/L		920.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:41 PM	20:36	7.57 pH	12.31 °C	307.68 µS/cm	0.02 mg/L		942.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:42 PM	21:06	7.57 pH	12.34 °C	307.42 µS/cm	0.02 mg/L		959.3 mV	910.00 cm	2,000.0 ml/min

7/27/2023 2:42 PM	21:36	7.57 pH	12.32 °C	307.37 µS/cm	0.02 mg/L		979.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:43 PM	22:06	7.57 pH	12.31 °C	307.26 µS/cm	0.02 mg/L		978.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:43 PM	22:36	7.57 pH	12.32 °C	307.37 µS/cm	0.02 mg/L		918.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:44 PM	23:06	7.57 pH	12.33 °C	307.38 µS/cm	0.02 mg/L		914.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:44 PM	23:36	7.57 pH	12.34 °C	307.16 µS/cm	0.02 mg/L		898.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:45 PM	24:06	7.57 pH	12.32 °C	307.04 µS/cm	0.02 mg/L		975.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:45 PM	24:36	7.57 pH	12.31 °C	307.07 µS/cm	0.02 mg/L		942.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:46 PM	25:06	7.56 pH	12.32 °C	307.15 µS/cm	0.02 mg/L		926.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:46 PM	25:36	7.56 pH	12.35 °C	307.52 µS/cm	0.02 mg/L		902.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:47 PM	26:06	7.56 pH	12.39 °C	307.15 µS/cm	0.02 mg/L		934.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:47 PM	26:36	7.56 pH	12.40 °C	307.15 µS/cm	0.02 mg/L		910.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:48 PM	27:06	7.56 pH	12.42 °C	307.32 µS/cm	0.02 mg/L		939.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:48 PM	27:36	7.56 pH	12.43 °C	307.13 µS/cm	0.02 mg/L		914.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:49 PM	28:06	7.56 pH	12.43 °C	307.17 µS/cm	0.01 mg/L		912.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:49 PM	28:36	7.56 pH	12.43 °C	307.01 µS/cm	0.01 mg/L		935.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:50 PM	29:06	7.56 pH	12.40 °C	307.09 µS/cm	0.01 mg/L		909.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:50 PM	29:36	7.56 pH	12.40 °C	307.22 µS/cm	0.01 mg/L		933.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:51 PM	30:06	7.56 pH	12.40 °C	307.01 µS/cm	0.01 mg/L		908.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:51 PM	30:36	7.56 pH	12.38 °C	306.78 µS/cm	0.01 mg/L		908.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:52 PM	31:06	7.56 pH	12.33 °C	306.80 µS/cm	0.01 mg/L		931.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:52 PM	31:36	7.56 pH	12.31 °C	306.50 µS/cm	0.01 mg/L		907.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:53 PM	32:06	7.56 pH	12.28 °C	306.88 µS/cm	0.01 mg/L		928.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:53 PM	32:36	7.56 pH	12.28 °C	306.99 µS/cm	0.01 mg/L		904.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:54 PM	33:06	7.55 pH	12.29 °C	307.04 µS/cm	0.00 mg/L		904.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:54 PM	33:36	7.55 pH	12.31 °C	307.13 µS/cm	0.01 mg/L		929.9 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:55 PM	34:06	7.55 pH	12.31 °C	307.13 µS/cm	0.00 mg/L		903.9 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:55 PM	34:36	7.55 pH	12.31 °C	307.09 µS/cm	0.00 mg/L		928.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:56 PM	35:06	7.55 pH	12.31 °C	306.94 µS/cm	0.00 mg/L		903.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:56 PM	35:36	7.55 pH	12.31 °C	307.11 µS/cm	0.00 mg/L		900.2 mV	910.00 cm	2,000.0 ml/min

7/27/2023 2:57 PM	36:06	7.55 pH	12.33 °C	307.12 µS/cm	0.00 mg/L		928.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:57 PM	36:36	7.55 pH	12.35 °C	307.08 µS/cm	0.00 mg/L		901.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:58 PM	37:06	7.55 pH	12.35 °C	307.21 µS/cm	0.00 mg/L		924.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:58 PM	37:36	7.55 pH	12.34 °C	306.89 µS/cm	0.00 mg/L		899.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:59 PM	38:06	7.55 pH	12.34 °C	306.89 µS/cm	0.00 mg/L		899.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:59 PM	38:36	7.55 pH	12.33 °C	306.95 µS/cm	0.00 mg/L		924.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:00 PM	39:06	7.55 pH	12.34 °C	307.03 µS/cm	0.00 mg/L		898.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:00 PM	39:36	7.55 pH	12.35 °C	307.02 µS/cm	0.00 mg/L		920.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:01 PM	40:06	7.55 pH	12.36 °C	307.06 µS/cm	0.00 mg/L		899.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:01 PM	40:36	7.55 pH	12.37 °C	306.92 µS/cm	0.00 mg/L		896.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:02 PM	41:06	7.55 pH	12.38 °C	306.78 µS/cm	0.00 mg/L		923.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:02 PM	41:36	7.55 pH	12.35 °C	306.66 µS/cm	0.00 mg/L		896.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:03 PM	42:06	7.55 pH	12.34 °C	306.72 µS/cm	0.00 mg/L		895.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:03 PM	42:36	7.55 pH	12.32 °C	306.60 µS/cm	0.00 mg/L		921.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:04 PM	43:06	7.55 pH	12.31 °C	306.67 µS/cm	0.00 mg/L		914.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:04 PM	43:36	7.55 pH	12.30 °C	306.73 µS/cm	0.00 mg/L		903.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:05 PM	44:06	7.55 pH	12.27 °C	306.80 µS/cm	0.00 mg/L		899.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:05 PM	44:36	7.55 pH	12.26 °C	306.77 µS/cm	0.00 mg/L		891.9 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:06 PM	45:06	7.55 pH	12.26 °C	306.90 µS/cm	0.00 mg/L		925.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:06 PM	45:36	7.54 pH	12.29 °C	306.93 µS/cm	0.00 mg/L		893.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:07 PM	46:06	7.54 pH	12.31 °C	307.00 µS/cm	0.00 mg/L		914.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:07 PM	46:36	7.54 pH	12.32 °C	307.18 µS/cm	0.00 mg/L		894.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:08 PM	47:06	7.54 pH	12.31 °C	306.83 µS/cm	0.00 mg/L		891.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:08 PM	47:36	7.54 pH	12.32 °C	307.03 µS/cm	0.00 mg/L		915.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:09 PM	48:06	7.54 pH	12.32 °C	306.87 µS/cm	0.00 mg/L		890.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:09 PM	48:36	7.54 pH	12.32 °C	306.88 µS/cm	0.00 mg/L		916.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:10 PM	49:06	7.54 pH	12.32 °C	306.93 µS/cm	0.00 mg/L		890.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:10 PM	49:36	7.54 pH	12.33 °C	306.79 µS/cm	0.00 mg/L		889.9 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:11 PM	50:06	7.54 pH	12.34 °C	306.84 µS/cm	0.00 mg/L		916.3 mV	910.00 cm	2,000.0 ml/min

7/27/2023 3:11 PM	50:36	7.54 pH	12.31 °C	306.60 µS/cm	0.00 mg/L		906.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:12 PM	51:06	7.54 pH	12.30 °C	306.48 µS/cm	0.00 mg/L		897.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:12 PM	51:36	7.54 pH	12.30 °C	306.71 µS/cm	0.00 mg/L		899.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:13 PM	52:06	7.54 pH	12.28 °C	306.67 µS/cm	0.00 mg/L		881.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:13 PM	52:36	7.54 pH	12.29 °C	306.76 µS/cm	0.00 mg/L		912.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:14 PM	53:06	7.54 pH	12.26 °C	306.64 µS/cm	0.00 mg/L		904.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:14 PM	53:36	7.54 pH	12.23 °C	306.69 µS/cm	0.00 mg/L		899.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:15 PM	54:06	7.54 pH	12.21 °C	306.75 µS/cm	0.00 mg/L		889.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:15 PM	54:36	7.54 pH	12.22 °C	307.00 µS/cm	0.00 mg/L		889.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:16 PM	55:06	7.54 pH	12.23 °C	307.06 µS/cm	-0.01 mg/L		913.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:16 PM	55:36	7.54 pH	12.23 °C	307.02 µS/cm	-0.01 mg/L		901.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:17 PM	56:06	7.54 pH	12.23 °C	306.87 µS/cm	-0.01 mg/L		875.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:17 PM	56:36	7.54 pH	12.21 °C	306.86 µS/cm	-0.01 mg/L		910.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:18 PM	57:06	7.54 pH	12.17 °C	306.69 µS/cm	-0.01 mg/L		887.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:18 PM	57:36	7.54 pH	12.17 °C	306.69 µS/cm	-0.01 mg/L		911.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:19 PM	58:06	7.54 pH	12.17 °C	306.81 µS/cm	-0.01 mg/L		888.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:19 PM	58:36	7.54 pH	12.17 °C	306.85 µS/cm	-0.01 mg/L		908.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:20 PM	59:06	7.54 pH	12.17 °C	307.00 µS/cm	-0.01 mg/L		885.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:20 PM	59:36	7.54 pH	12.18 °C	306.89 µS/cm	-0.01 mg/L		883.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:21 PM	01:00:06	7.54 pH	12.17 °C	306.85 µS/cm	-0.01 mg/L		867.7 mV	910.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 7/28/2023 10:50:09 AM
Project: GCRE 2
Operator Name: KE

Location Name: S2-BH217.1 **Well Diameter: 1.9 cm** **Total Depth: 29.96 m** **Initial Depth to Water: 17.06 m**	**Pump Type: Waterra pp1** **Estimated Total Volume Pumped: 8016.667 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 1000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Raining

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/28/2023 10:50 AM	00:00	8.32 pH	17.86 °C	319.08 µS/cm	6.76 mg/L		395.3 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:50 AM	00:30	8.63 pH	15.75 °C	583.53 µS/cm	3.21 mg/L		561.1 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:51 AM	01:00	8.48 pH	15.21 °C	585.44 µS/cm	1.15 mg/L		667.4 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:51 AM	01:30	8.45 pH	14.58 °C	601.70 µS/cm	0.64 mg/L		751.1 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:51 AM	01:39	8.44 pH	14.50 °C	606.15 µS/cm	0.59 mg/L		804.3 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:52 AM	02:09	8.41 pH	14.04 °C	637.15 µS/cm	0.58 mg/L		881.1 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:52 AM	02:39	8.35 pH	13.63 °C	568.38 µS/cm	0.29 mg/L		838.2 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:53 AM	03:09	8.31 pH	13.19 °C	553.43 µS/cm	0.18 mg/L		856.5 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:53 AM	03:39	8.33 pH	12.99 °C	595.13 µS/cm	0.16 mg/L		855.6 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:54 AM	04:09	8.29 pH	12.11 °C	523.27 µS/cm	0.13 mg/L		865.9 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:54 AM	04:45	8.23 pH	11.65 °C	509.11 µS/cm	0.12 mg/L		958.2 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:55 AM	05:01	8.21 pH	11.50 °C	492.40 µS/cm	0.11 mg/L		985.5 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:55 AM	05:31	8.17 pH	11.33 °C	484.07 µS/cm	0.11 mg/L		997.4 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:56 AM	06:01	8.15 pH	11.21 °C	480.30 µS/cm	0.11 mg/L		881.3 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:56 AM	06:31	8.12 pH	11.16 °C	478.79 µS/cm	0.11 mg/L		884.1 mV	1,706.0 cm	1,000.00 ml/min

7/28/2023 10:57 AM	07:01	8.10 pH	11.11 °C	477.41 µS/cm	0.11 mg/L		885.2 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:57 AM	07:31	8.08 pH	11.09 °C	475.74 µS/cm	0.12 mg/L		888.8 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:58 AM	08:01	8.06 pH	11.06 °C	478.37 µS/cm	0.13 mg/L		887.5 mV	1,706.0 cm	1,000.00 ml/min

Samples

Sample ID:	Description:
EW2	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 01/08/2023 14:37:43
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH222.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 10 m** **Top of Screen: 15 m** **Total Depth: 24.71 m** **Initial Depth to Water: 21.45 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 24000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Light showers

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
01/08/2023 14:37	00:00	7.01 pH	17.67 °C	389.81 µS/cm	3.59 mg/L		-25.4 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:38	00:30	7.20 pH	15.86 °C	474.11 µS/cm	1.78 mg/L		-22.8 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:38	01:00	7.23 pH	14.71 °C	475.58 µS/cm	0.99 mg/L		-18.5 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:39	01:30	7.24 pH	14.06 °C	472.95 µS/cm	0.65 mg/L		-15.6 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:39	02:00	7.23 pH	13.51 °C	469.70 µS/cm	0.51 mg/L		-13.3 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:40	02:30	7.23 pH	13.20 °C	462.48 µS/cm	0.44 mg/L		-11.7 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:40	03:00	7.22 pH	12.90 °C	455.01 µS/cm	0.39 mg/L		-9.9 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:41	03:30	7.22 pH	12.72 °C	441.26 µS/cm	0.35 mg/L		-8.0 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:41	04:00	7.20 pH	12.61 °C	429.94 µS/cm	0.30 mg/L		-6.2 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:42	04:30	7.19 pH	12.54 °C	424.43 µS/cm	0.27 mg/L		-5.1 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:42	05:00	7.18 pH	12.49 °C	419.09 µS/cm	0.25 mg/L		-3.7 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:43	05:30	7.18 pH	12.44 °C	409.72 µS/cm	0.23 mg/L		-2.6 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:43	06:00	7.17 pH	12.39 °C	403.73 µS/cm	0.21 mg/L		-1.9 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:44	06:30	7.16 pH	12.39 °C	399.28 µS/cm	0.21 mg/L		-1.3 mV	2,145.0 cm	2,000.0 ml/min

01/08/2023 14:44	07:00	7.15 pH	12.36 °C	391.87 µS/cm	0.19 mg/L		-0.6 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:45	07:30	7.15 pH	12.36 °C	387.34 µS/cm	0.19 mg/L		-0.3 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:45	08:00	7.14 pH	12.36 °C	381.68 µS/cm	0.18 mg/L		0.3 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:46	08:30	7.14 pH	12.36 °C	375.42 µS/cm	0.17 mg/L		-1.0 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:46	09:00	7.13 pH	12.35 °C	374.22 µS/cm	0.17 mg/L		0.8 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:47	09:30	7.12 pH	12.35 °C	371.03 µS/cm	0.16 mg/L		1.4 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:47	10:00	7.12 pH	12.36 °C	368.23 µS/cm	0.16 mg/L		1.5 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:48	10:30	7.12 pH	12.35 °C	365.91 µS/cm	0.16 mg/L		1.8 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:48	11:00	7.12 pH	12.33 °C	361.63 µS/cm	0.15 mg/L		2.4 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:49	11:30	7.11 pH	12.33 °C	359.73 µS/cm	0.15 mg/L		2.6 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:49	12:00	7.11 pH	12.33 °C	355.08 µS/cm	0.15 mg/L		2.7 mV	2,145.0 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Low-Flow Test Report:

Test Date / Time: 02/08/2023 13:57:28
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH225 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 3.9 m** **Top of Screen: 3 m** **Total Depth: 5.93 m** **Initial Depth to Water: 3.83 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 27000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
02/08/2023 13:57	00:00	7.82 pH	13.85 °C	438.65 µS/cm	3.23 mg/L		3.2 mV	383.00 cm	2,000.0 ml/min
02/08/2023 13:57	00:30	7.64 pH	13.01 °C	414.78 µS/cm	1.42 mg/L		-15.8 mV	383.00 cm	2,000.0 ml/min
02/08/2023 13:58	01:00	7.55 pH	12.40 °C	414.53 µS/cm	0.71 mg/L		-17.5 mV	383.00 cm	2,000.0 ml/min
02/08/2023 13:58	01:30	7.51 pH	12.07 °C	415.20 µS/cm	0.44 mg/L		-16.6 mV	383.00 cm	2,000.0 ml/min
02/08/2023 13:59	02:00	7.49 pH	11.90 °C	417.86 µS/cm	0.33 mg/L		-13.2 mV	383.00 cm	2,000.0 ml/min
02/08/2023 13:59	02:30	7.46 pH	11.80 °C	412.72 µS/cm	0.28 mg/L		-10.7 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:00	03:00	7.42 pH	11.76 °C	388.38 µS/cm	0.24 mg/L		-11.6 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:00	03:30	7.36 pH	11.71 °C	355.67 µS/cm	0.21 mg/L		-13.7 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:01	04:00	7.30 pH	11.68 °C	332.51 µS/cm	0.19 mg/L		-13.4 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:01	04:30	7.26 pH	11.66 °C	313.40 µS/cm	0.17 mg/L		-10.6 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:02	05:00	7.22 pH	11.66 °C	300.49 µS/cm	0.16 mg/L		-8.3 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:02	05:30	7.19 pH	11.66 °C	294.54 µS/cm	0.15 mg/L		-6.6 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:03	06:00	7.18 pH	11.66 °C	293.76 µS/cm	0.14 mg/L		-5.8 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:03	06:30	7.16 pH	11.68 °C	285.12 µS/cm	0.14 mg/L		-4.7 mV	383.00 cm	2,000.0 ml/min

02/08/2023 14:04	07:00	7.15 pH	11.71 °C	271.00 µS/cm	0.13 mg/L		-3.3 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:04	07:30	7.12 pH	11.75 °C	259.10 µS/cm	0.13 mg/L		-1.5 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:05	08:00	7.10 pH	11.77 °C	249.53 µS/cm	0.12 mg/L		-0.1 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:05	08:30	7.07 pH	11.80 °C	241.95 µS/cm	0.12 mg/L		1.3 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:06	09:00	7.05 pH	11.84 °C	235.94 µS/cm	0.12 mg/L		2.4 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:06	09:30	7.03 pH	11.91 °C	230.88 µS/cm	0.11 mg/L		3.5 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:07	10:00	7.02 pH	11.93 °C	226.02 µS/cm	0.11 mg/L		4.2 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:07	10:30	7.01 pH	11.95 °C	221.70 µS/cm	0.11 mg/L		5.1 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:08	11:00	6.99 pH	12.01 °C	217.89 µS/cm	0.10 mg/L		5.8 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:08	11:30	6.97 pH	12.03 °C	214.29 µS/cm	0.10 mg/L		6.4 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:09	12:00	6.97 pH	12.02 °C	211.03 µS/cm	0.10 mg/L		6.7 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:09	12:30	6.95 pH	12.03 °C	208.22 µS/cm	0.10 mg/L		7.5 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:10	13:00	6.95 pH	12.02 °C	205.44 µS/cm	0.09 mg/L		7.7 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:10	13:30	6.94 pH	12.02 °C	202.93 µS/cm	0.09 mg/L		7.8 mV	383.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 7/28/2023 12:13:40 PM
Project: GCRE 2 (4)
Operator Name: KW

Location Name: S2-BH227.1 **Well Diameter: 1.9 cm** **Total Depth: 5 m** **Initial Depth to Water: 3.1 m**	**Pump Type: Waterra pp1** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 1000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Raining

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/28/2023 12:13 PM	00:00	8.28 pH	15.17 °C	283.74 µS/cm	1.09 mg/L		308.9 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:14 PM	00:30	8.23 pH	14.28 °C	287.80 µS/cm	0.44 mg/L		600.7 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:14 PM	01:00	8.18 pH	13.72 °C	291.23 µS/cm	0.19 mg/L		729.5 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:15 PM	01:30	8.14 pH	13.41 °C	294.38 µS/cm	0.12 mg/L		810.0 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:15 PM	02:00	8.10 pH	13.22 °C	296.29 µS/cm	0.09 mg/L		863.6 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:16 PM	02:30	7.93 pH	13.11 °C	297.16 µS/cm	0.08 mg/L		861.6 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:16 PM	03:00	8.03 pH	13.03 °C	297.85 µS/cm	0.07 mg/L		874.0 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:17 PM	03:30	7.98 pH	12.98 °C	298.49 µS/cm	0.06 mg/L		898.9 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:17 PM	04:00	7.84 pH	12.97 °C	298.43 µS/cm	0.05 mg/L		881.5 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:18 PM	04:30	7.86 pH	12.95 °C	298.53 µS/cm	0.05 mg/L		903.4 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:18 PM	05:00	7.93 pH	12.95 °C	298.03 µS/cm	0.05 mg/L		908.2 mV	310.00 cm	1,000.00 ml/min

Samples

Sample ID:	Description:

EW1	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/26/2023 12:04:20 PM
Project: GCRE 2
Operator Name: KW

Location Name: S2-BH227.2 **Well Diameter: 5 cm** **Screen Length: 6 m** **Top of Screen: 8 m** **Total Depth: 14.5 m** **Initial Depth to Water: 10.67 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 19000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Raining

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/26/2023 12:04 PM	00:00	7.99 pH	14.76 °C	286.44 µS/cm	0.23 mg/L		373.6 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:04 PM	00:30	7.95 pH	13.96 °C	290.97 µS/cm	0.15 mg/L		746.6 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:05 PM	01:00	7.91 pH	13.45 °C	292.71 µS/cm	0.12 mg/L		849.4 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:05 PM	01:30	7.88 pH	13.06 °C	293.99 µS/cm	0.10 mg/L		877.6 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:06 PM	02:00	7.85 pH	12.77 °C	294.58 µS/cm	0.09 mg/L		891.8 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:06 PM	02:30	7.82 pH	12.58 °C	295.03 µS/cm	0.08 mg/L		897.9 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:07 PM	03:00	7.80 pH	12.44 °C	295.38 µS/cm	0.08 mg/L		901.1 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:07 PM	03:30	7.78 pH	12.35 °C	295.71 µS/cm	0.08 mg/L		903.2 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:08 PM	04:00	7.75 pH	12.31 °C	295.88 µS/cm	0.08 mg/L		905.1 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:08 PM	04:30	7.74 pH	12.27 °C	296.02 µS/cm	0.09 mg/L		904.4 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:09 PM	05:00	7.72 pH	12.26 °C	296.15 µS/cm	0.09 mg/L		905.1 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:09 PM	05:30	7.70 pH	12.24 °C	296.01 µS/cm	0.08 mg/L		908.4 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:10 PM	06:00	7.69 pH	12.21 °C	295.71 µS/cm	0.08 mg/L		908.1 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:10 PM	06:30	7.67 pH	12.21 °C	295.51 µS/cm	0.07 mg/L		907.0 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:11 PM	07:00	7.66 pH	12.21 °C	295.38 µS/cm	0.07 mg/L		907.0 mV	1,067.0 cm	2,000.0 ml/min

7/26/2023 12:11 PM	07:30	7.65 pH	12.21 °C	295.61 µS/cm	0.06 mg/L		906.5 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:12 PM	08:00	7.64 pH	12.21 °C	296.00 µS/cm	0.06 mg/L		907.7 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:12 PM	08:30	7.63 pH	12.23 °C	296.36 µS/cm	0.06 mg/L		907.7 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:13 PM	09:00	7.62 pH	12.24 °C	296.39 µS/cm	0.05 mg/L		906.5 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:13 PM	09:30	7.61 pH	12.26 °C	296.21 µS/cm	0.05 mg/L		907.6 mV	1,067.0 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 02/08/2023 12:44:01
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH229.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 6 m** **Top of Screen: 8 m** **Total Depth: 13.82 m** **Initial Depth to Water: 12.08 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 7433.333 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
02/08/2023 12:44	00:00	7.65 pH	13.76 °C	788.59 µS/cm	5.08 mg/L		31.5 mV	1,208.0 cm	2,000.0 ml/min
02/08/2023 12:44	00:30	7.61 pH	13.14 °C	780.13 µS/cm	3.47 mg/L		23.9 mV	1,208.0 cm	2,000.0 ml/min
02/08/2023 12:45	01:00	7.60 pH	12.80 °C	778.38 µS/cm	2.36 mg/L		20.3 mV	1,208.0 cm	2,000.0 ml/min
02/08/2023 12:45	01:30	7.58 pH	12.63 °C	780.07 µS/cm	1.94 mg/L		18.8 mV	1,208.0 cm	2,000.0 ml/min
02/08/2023 12:46	02:00	7.58 pH	12.58 °C	781.05 µS/cm	1.68 mg/L		17.0 mV	1,208.0 cm	2,000.0 ml/min
02/08/2023 12:46	02:30	7.59 pH	12.50 °C	783.98 µS/cm	1.41 mg/L		14.5 mV	1,208.0 cm	2,000.0 ml/min
02/08/2023 12:47	03:13	7.57 pH	12.52 °C	792.92 µS/cm	1.16 mg/L		20.0 mV	1,208.0 cm	2,000.0 ml/min
02/08/2023 12:47	03:43	7.56 pH	12.53 °C	790.76 µS/cm	1.13 mg/L		16.2 mV	1,208.0 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 01/08/2023 13:08:00
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH232 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 7 m** **Top of Screen: 1 m** **Total Depth: 6.95 m** **Initial Depth to Water: 4.45 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 18000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
01/08/2023 13:08	00:00	8.88 pH	17.45 °C	53.18 µS/cm	9.05 mg/L		1.7 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:08	00:30	7.38 pH	16.87 °C	257.62 µS/cm	7.91 mg/L		-44.0 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:09	01:00	7.10 pH	16.33 °C	369.18 µS/cm	4.82 mg/L		-42.4 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:09	01:30	7.04 pH	15.70 °C	399.15 µS/cm	2.77 mg/L		-45.6 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:10	02:00	7.03 pH	15.25 °C	409.35 µS/cm	1.78 mg/L		-47.6 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:10	02:30	7.02 pH	14.91 °C	414.16 µS/cm	1.30 mg/L		-49.1 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:11	03:00	7.02 pH	14.67 °C	425.45 µS/cm	1.04 mg/L		-50.1 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:11	03:30	7.02 pH	14.49 °C	417.28 µS/cm	0.87 mg/L		-52.1 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:12	04:00	7.00 pH	14.40 °C	417.99 µS/cm	0.68 mg/L		-53.0 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:12	04:30	7.01 pH	14.33 °C	418.62 µS/cm	0.55 mg/L		-54.2 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:13	05:00	7.00 pH	14.29 °C	419.11 µS/cm	0.46 mg/L		-55.2 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:13	05:30	7.01 pH	14.24 °C	414.35 µS/cm	0.39 mg/L		-55.5 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:14	06:00	7.01 pH	14.18 °C	397.01 µS/cm	0.42 mg/L		-54.4 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:14	06:30	7.02 pH	14.14 °C	382.09 µS/cm	0.52 mg/L		-53.3 mV	445.00 cm	2,000.0 ml/min

01/08/2023 13:15	07:00	7.02 pH	14.16 °C	373.10 µS/cm	0.60 mg/L		-52.4 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:15	07:30	7.02 pH	14.17 °C	369.80 µS/cm	0.63 mg/L		-51.7 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:16	08:00	7.01 pH	14.17 °C	371.79 µS/cm	0.63 mg/L		-51.2 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:16	08:30	7.01 pH	14.14 °C	374.00 µS/cm	0.53 mg/L		-51.3 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:17	09:00	7.01 pH	14.12 °C	378.74 µS/cm	0.45 mg/L		-52.1 mV	445.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 7/26/2023 2:39:43 PM
Project: GCRE 2
Operator Name: KW

Location Name: S2-BH237 **Well Diameter: 5 cm** **Total Depth: 25.5 m** **Initial Depth to Water: 11.9 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 31000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Heavy rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/26/2023 2:39 PM	00:00	7.50 pH	13.08 °C	344.38 µS/cm	3.28 mg/L		319.9 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:40 PM	00:30	7.31 pH	12.40 °C	298.94 µS/cm	2.63 mg/L		573.1 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:40 PM	01:00	7.05 pH	12.04 °C	288.37 µS/cm	2.49 mg/L		682.7 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:41 PM	01:30	6.68 pH	11.88 °C	284.18 µS/cm	2.49 mg/L		787.3 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:41 PM	02:00	6.39 pH	11.78 °C	286.70 µS/cm	2.44 mg/L		871.0 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:42 PM	02:30	6.21 pH	11.75 °C	289.20 µS/cm	2.35 mg/L		929.3 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:42 PM	03:00	6.09 pH	11.75 °C	291.12 µS/cm	2.25 mg/L		961.9 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:43 PM	03:30	6.00 pH	11.77 °C	293.17 µS/cm	2.12 mg/L		912.0 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:43 PM	04:00	5.94 pH	11.80 °C	294.90 µS/cm	1.98 mg/L		979.8 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:44 PM	04:30	5.92 pH	11.85 °C	297.09 µS/cm	1.81 mg/L		990.4 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:44 PM	05:00	5.90 pH	11.87 °C	298.05 µS/cm	1.63 mg/L		997.7 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:45 PM	05:30	5.89 pH	11.91 °C	297.61 µS/cm	1.44 mg/L		1,001.2 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:45 PM	06:00	5.91 pH	11.96 °C	297.45 µS/cm	1.28 mg/L		1,002.8 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:46 PM	06:30	5.92 pH	12.01 °C	297.35 µS/cm	1.14 mg/L		1,004.2 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:46 PM	07:00	5.94 pH	12.04 °C	299.73 µS/cm	1.01 mg/L		1,003.5 mV	1,190.0 cm	2,000.0 ml/min

7/26/2023 2:47 PM	07:30	5.96 pH	12.08 °C	304.66 µS/cm	0.90 mg/L		1,002.9 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:47 PM	08:00	5.98 pH	12.11 °C	313.53 µS/cm	0.79 mg/L		944.4 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:48 PM	08:30	6.00 pH	12.12 °C	320.07 µS/cm	0.71 mg/L		1,021.6 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:48 PM	09:00	6.01 pH	12.13 °C	329.84 µS/cm	0.63 mg/L		998.3 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:49 PM	09:30	6.03 pH	12.14 °C	340.47 µS/cm	0.55 mg/L		996.7 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:49 PM	10:00	6.07 pH	12.15 °C	351.50 µS/cm	0.48 mg/L		992.8 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:50 PM	10:30	6.10 pH	12.16 °C	361.22 µS/cm	0.41 mg/L		991.2 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:50 PM	11:00	6.12 pH	12.17 °C	370.08 µS/cm	0.36 mg/L		989.1 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:51 PM	11:30	6.14 pH	12.17 °C	378.83 µS/cm	0.32 mg/L		987.7 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:51 PM	12:00	6.16 pH	12.17 °C	387.35 µS/cm	0.28 mg/L		985.0 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:52 PM	12:30	6.18 pH	12.17 °C	395.32 µS/cm	0.25 mg/L		982.8 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:52 PM	13:00	6.20 pH	12.17 °C	403.26 µS/cm	0.23 mg/L		979.9 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:53 PM	13:30	6.22 pH	12.17 °C	410.00 µS/cm	0.21 mg/L		978.9 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:53 PM	14:00	6.23 pH	12.18 °C	416.16 µS/cm	0.19 mg/L		977.5 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:54 PM	14:30	6.25 pH	12.18 °C	421.79 µS/cm	0.17 mg/L		974.2 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:54 PM	15:00	6.27 pH	12.19 °C	426.53 µS/cm	0.16 mg/L		975.5 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:55 PM	15:30	6.29 pH	12.19 °C	430.47 µS/cm	0.15 mg/L		972.7 mV	1,190.0 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 7/25/2023 12:12:41 PM
Project: GCRE 2 (3)
Operator Name: KW

Location Name: S2-BH239.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 2.6 m** **Top of Screen: 1 m** **Total Depth: 3.6 m** **Initial Depth to Water: 1.46 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 19000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Windy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/25/2023 12:12 PM	00:00	8.23 pH	20.68 °C	1,160.5 µS/cm	5.85 mg/L		416.2 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:13 PM	00:30	8.16 pH	19.34 °C	1,164.9 µS/cm	1.51 mg/L		801.7 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:13 PM	01:00	8.08 pH	18.70 °C	1,186.9 µS/cm	0.75 mg/L		864.0 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:14 PM	01:30	8.02 pH	18.32 °C	1,199.3 µS/cm	0.51 mg/L		902.3 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:14 PM	02:00	7.98 pH	17.94 °C	1,204.0 µS/cm	0.43 mg/L		892.8 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:15 PM	02:30	7.95 pH	17.61 °C	1,210.4 µS/cm	0.39 mg/L		892.0 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:15 PM	03:00	7.92 pH	17.50 °C	1,218.5 µS/cm	0.37 mg/L		894.3 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:16 PM	03:30	7.90 pH	17.56 °C	1,226.0 µS/cm	0.36 mg/L		894.0 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:16 PM	04:00	7.88 pH	17.69 °C	1,229.0 µS/cm	0.35 mg/L		893.3 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:17 PM	04:30	7.87 pH	17.80 °C	1,228.6 µS/cm	0.33 mg/L		890.9 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:17 PM	05:00	7.86 pH	17.86 °C	1,227.1 µS/cm	0.32 mg/L		893.2 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:18 PM	05:30	7.85 pH	17.89 °C	1,225.3 µS/cm	0.31 mg/L		890.1 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:18 PM	06:00	7.84 pH	17.94 °C	1,225.1 µS/cm	0.29 mg/L		891.2 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:19 PM	06:30	7.84 pH	17.95 °C	1,224.2 µS/cm	0.28 mg/L		890.0 mV	146.00 cm	2,000.0 ml/min

7/25/2023 12:19 PM	07:00	7.84 pH	17.88 °C	1,221.4 µS/cm	0.27 mg/L		890.1 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:20 PM	07:30	7.83 pH	17.81 °C	1,220.3 µS/cm	0.27 mg/L		889.1 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:20 PM	08:00	7.83 pH	17.74 °C	1,221.0 µS/cm	0.27 mg/L		889.9 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:21 PM	08:30	7.83 pH	17.73 °C	1,222.9 µS/cm	0.27 mg/L		888.9 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:21 PM	09:00	7.83 pH	17.72 °C	1,221.8 µS/cm	0.26 mg/L		889.5 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:22 PM	09:30	7.83 pH	17.67 °C	1,221.2 µS/cm	0.26 mg/L		890.7 mV	146.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW4	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/25/2023 11:52:33 AM
Project: GCRE 2 (2)
Operator Name: KW

Location Name: S2-BH239.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 3 m** **Top of Screen: 7 m** **Total Depth: 7.8 m** **Initial Depth to Water: 1.74 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 18000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Windy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/25/2023 11:52 AM	00:00	8.08 pH	17.06 °C	1,194.1 µS/cm	0.28 mg/L		326.4 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:53 AM	00:30	8.03 pH	16.90 °C	1,205.8 µS/cm	0.40 mg/L		688.0 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:53 AM	01:00	8.00 pH	16.78 °C	1,211.3 µS/cm	0.18 mg/L		822.6 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:54 AM	01:30	7.97 pH	16.74 °C	1,214.2 µS/cm	0.14 mg/L		865.7 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:54 AM	02:00	7.94 pH	16.76 °C	1,215.8 µS/cm	0.12 mg/L		880.6 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:55 AM	02:30	7.92 pH	16.82 °C	1,215.0 µS/cm	0.11 mg/L		889.4 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:55 AM	03:00	7.91 pH	16.91 °C	1,220.0 µS/cm	0.11 mg/L		892.3 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:56 AM	03:30	7.89 pH	16.97 °C	1,221.0 µS/cm	0.10 mg/L		892.2 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:56 AM	04:00	7.88 pH	17.04 °C	1,220.0 µS/cm	0.10 mg/L		893.5 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:57 AM	04:30	7.88 pH	17.08 °C	1,220.2 µS/cm	0.10 mg/L		891.5 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:57 AM	05:00	7.87 pH	17.11 °C	1,220.0 µS/cm	0.10 mg/L		890.9 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:58 AM	05:30	7.86 pH	17.15 °C	1,220.1 µS/cm	0.09 mg/L		892.1 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:58 AM	06:00	7.86 pH	17.17 °C	1,219.8 µS/cm	0.09 mg/L		890.6 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:59 AM	06:30	7.85 pH	17.19 °C	1,219.4 µS/cm	0.09 mg/L		888.7 mV	174.00 cm	2,000.0 ml/min

7/25/2023 11:59 AM	07:00	7.85 pH	17.19 °C	1,219.6 µS/cm	0.08 mg/L		890.4 mV	174.00 cm	2,000.0 ml/min
7/25/2023 12:00 PM	07:30	7.85 pH	17.14 °C	1,217.8 µS/cm	0.08 mg/L		887.5 mV	174.00 cm	2,000.0 ml/min
7/25/2023 12:00 PM	08:00	7.84 pH	17.11 °C	1,218.4 µS/cm	0.08 mg/L		886.5 mV	174.00 cm	2,000.0 ml/min
7/25/2023 12:01 PM	08:30	7.84 pH	17.11 °C	1,218.2 µS/cm	0.08 mg/L		901.5 mV	174.00 cm	2,000.0 ml/min
7/25/2023 12:01 PM	09:00	7.84 pH	17.10 °C	1,217.5 µS/cm	0.08 mg/L		886.5 mV	174.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW3	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/25/2023 9:51:08 AM
Project: GCRE 2
Operator Name: KW

Location Name: S2-BH240 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 5 m** **Top of Screen: 1 m** **Total Depth: 5.16 m** **Initial Depth to Water: 1.55 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 28000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Windy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/25/2023 9:51 AM	00:00	8.09 pH	17.13 °C	1,167.5 µS/cm	5.12 mg/L		387.1 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:51 AM	00:30	7.99 pH	16.11 °C	1,246.5 µS/cm	1.13 mg/L		642.6 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:52 AM	01:00	7.95 pH	15.40 °C	1,266.3 µS/cm	0.34 mg/L		748.0 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:52 AM	01:30	7.94 pH	14.92 °C	1,277.8 µS/cm	0.23 mg/L		793.0 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:53 AM	02:00	7.94 pH	14.63 °C	1,281.5 µS/cm	0.18 mg/L		808.0 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:53 AM	02:30	7.94 pH	14.48 °C	1,283.3 µS/cm	0.14 mg/L		816.9 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:54 AM	03:00	7.94 pH	14.42 °C	1,285.0 µS/cm	0.12 mg/L		823.0 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:54 AM	03:30	7.95 pH	14.40 °C	1,286.6 µS/cm	0.12 mg/L		824.8 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:55 AM	04:00	7.95 pH	14.40 °C	1,287.9 µS/cm	0.11 mg/L		827.7 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:55 AM	04:30	7.96 pH	14.42 °C	1,289.9 µS/cm	0.10 mg/L		826.5 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:56 AM	05:00	7.97 pH	14.43 °C	1,291.2 µS/cm	0.09 mg/L		826.5 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:56 AM	05:30	7.97 pH	14.45 °C	1,292.3 µS/cm	0.09 mg/L		828.0 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:57 AM	06:00	7.98 pH	14.49 °C	1,293.6 µS/cm	0.08 mg/L		825.7 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:57 AM	06:30	7.99 pH	14.53 °C	1,294.1 µS/cm	0.08 mg/L		826.4 mV	155.00 cm	2,000.0 ml/min

7/25/2023 9:58 AM	07:00	7.99 pH	14.55 °C	1,293.0 µS/cm	0.07 mg/L		827.5 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:58 AM	07:30	8.00 pH	14.56 °C	1,290.6 µS/cm	0.07 mg/L		825.9 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:59 AM	08:00	8.00 pH	14.58 °C	1,290.3 µS/cm	0.06 mg/L		824.9 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:59 AM	08:30	8.70 pH	14.63 °C	9.59 µS/cm	2.36 mg/L		950.8 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:00 AM	09:00	8.03 pH	14.73 °C	2.90 µS/cm	5.18 mg/L		1,046.4 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:00 AM	09:30	8.06 pH	14.70 °C	1,285.9 µS/cm	3.56 mg/L		854.6 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:01 AM	10:00	8.04 pH	14.56 °C	1,287.0 µS/cm	0.72 mg/L		843.9 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:01 AM	10:30	8.04 pH	14.40 °C	1,289.1 µS/cm	0.19 mg/L		851.1 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:02 AM	11:00	8.04 pH	14.30 °C	1,289.2 µS/cm	0.09 mg/L		845.4 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:02 AM	11:30	8.05 pH	14.22 °C	1,288.1 µS/cm	0.07 mg/L		840.1 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:03 AM	12:00	8.05 pH	14.14 °C	1,284.0 µS/cm	0.06 mg/L		837.9 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:03 AM	12:30	8.05 pH	14.11 °C	1,279.8 µS/cm	0.05 mg/L		885.6 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:04 AM	13:00	8.06 pH	14.11 °C	1,277.5 µS/cm	0.05 mg/L		841.0 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:04 AM	13:30	8.06 pH	14.10 °C	1,277.2 µS/cm	0.04 mg/L		836.7 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:05 AM	14:00	8.06 pH	14.07 °C	1,277.2 µS/cm	0.03 mg/L		834.9 mV	155.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 25/07/2023 10:22:25
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH242 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 2.7 m** **Top of Screen: 1 m** **Total Depth: 3.79 m** **Initial Depth to Water: 1.88 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 41000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
25/07/2023 10:22	00:00	7.81 pH	14.47 °C	731.46 µS/cm	5.18 mg/L		-47.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:22	00:30	7.81 pH	14.22 °C	704.30 µS/cm	1.73 mg/L		-51.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:23	01:00	7.83 pH	14.30 °C	677.48 µS/cm	0.74 mg/L		-62.1 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:23	01:30	7.84 pH	14.53 °C	672.38 µS/cm	0.42 mg/L		-70.8 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:24	02:00	7.84 pH	14.73 °C	669.81 µS/cm	0.31 mg/L		-72.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:24	02:30	7.83 pH	14.93 °C	667.26 µS/cm	0.28 mg/L		-72.6 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:25	03:00	7.82 pH	15.06 °C	665.78 µS/cm	0.25 mg/L		-73.7 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:25	03:30	7.82 pH	15.19 °C	659.58 µS/cm	0.24 mg/L		-109.0 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:26	04:00	7.81 pH	15.23 °C	654.42 µS/cm	0.24 mg/L		-77.8 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:26	04:30	7.81 pH	15.27 °C	653.09 µS/cm	0.24 mg/L		-75.5 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:27	05:00	7.81 pH	15.38 °C	649.17 µS/cm	0.24 mg/L		-111.0 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:27	05:30	7.81 pH	15.48 °C	650.17 µS/cm	0.24 mg/L		-83.2 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:28	06:00	7.81 pH	15.55 °C	649.58 µS/cm	0.24 mg/L		-118.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:28	06:30	7.81 pH	15.57 °C	645.82 µS/cm	0.23 mg/L		-89.7 mV	188.00 cm	2,000.0 ml/min

25/07/2023 10:29	07:00	7.82 pH	15.50 °C	643.95 µS/cm	0.21 mg/L		-90.6 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:29	07:30	7.82 pH	15.52 °C	643.44 µS/cm	0.20 mg/L		-93.1 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:30	08:00	7.82 pH	15.52 °C	642.97 µS/cm	0.19 mg/L		-94.7 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:30	08:30	7.82 pH	15.48 °C	643.27 µS/cm	0.18 mg/L		-129.7 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:31	09:00	7.81 pH	15.48 °C	645.95 µS/cm	0.17 mg/L		-99.0 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:31	09:30	7.81 pH	15.51 °C	648.85 µS/cm	0.18 mg/L		-95.9 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:32	10:00	7.80 pH	15.52 °C	651.95 µS/cm	0.18 mg/L		-128.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:32	10:30	7.80 pH	15.52 °C	652.00 µS/cm	0.18 mg/L		-97.2 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:33	11:00	7.79 pH	15.48 °C	653.35 µS/cm	0.18 mg/L		-127.5 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:33	11:30	7.79 pH	15.46 °C	654.84 µS/cm	0.18 mg/L		-96.2 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:34	12:00	7.78 pH	15.51 °C	657.43 µS/cm	0.17 mg/L		-93.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:34	12:30	7.78 pH	15.51 °C	656.05 µS/cm	0.16 mg/L		-125.4 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:35	13:00	7.78 pH	15.45 °C	656.55 µS/cm	0.15 mg/L		-94.8 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:35	13:30	7.78 pH	15.42 °C	653.83 µS/cm	0.13 mg/L		-92.1 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:36	14:00	7.78 pH	15.45 °C	652.43 µS/cm	0.12 mg/L		-125.1 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:36	14:30	7.78 pH	15.52 °C	651.33 µS/cm	0.12 mg/L		-95.8 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:37	15:00	7.78 pH	15.52 °C	650.29 µS/cm	0.11 mg/L		-93.1 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:37	15:30	7.77 pH	15.52 °C	648.22 µS/cm	0.12 mg/L		-125.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:38	16:00	7.77 pH	15.50 °C	648.27 µS/cm	0.13 mg/L		-95.5 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:38	16:30	7.77 pH	15.54 °C	648.19 µS/cm	0.13 mg/L		-92.7 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:39	17:00	7.77 pH	15.57 °C	646.33 µS/cm	0.14 mg/L		-124.1 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:39	17:30	7.76 pH	15.53 °C	645.81 µS/cm	0.15 mg/L		-93.5 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:40	18:00	7.76 pH	15.48 °C	645.23 µS/cm	0.18 mg/L		-122.2 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:40	18:30	7.75 pH	15.45 °C	644.71 µS/cm	0.21 mg/L		-91.1 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:41	19:00	7.75 pH	15.40 °C	644.53 µS/cm	0.25 mg/L		-86.9 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:41	19:30	7.75 pH	15.35 °C	643.87 µS/cm	0.30 mg/L		-85.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:42	20:00	7.74 pH	15.34 °C	644.04 µS/cm	0.35 mg/L		-84.2 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:42	20:30	7.74 pH	15.33 °C	642.69 µS/cm	0.38 mg/L		-83.1 mV	188.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 25/07/2023 09:35:32
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH243.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 1 m** **Top of Screen: 5 m** **Total Depth: 5.93 m** **Initial Depth to Water: 3.18 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 10000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
25/07/2023 09:35	00:00	7.57 pH	13.12 °C	522.45 µS/cm	6.92 mg/L		4.3 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:36	00:30	7.54 pH	12.70 °C	546.14 µS/cm	3.77 mg/L		2.6 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:36	01:00	7.52 pH	12.44 °C	557.34 µS/cm	2.64 mg/L		7.8 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:37	01:30	7.50 pH	12.29 °C	565.51 µS/cm	2.09 mg/L		11.3 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:37	02:00	7.48 pH	12.21 °C	569.19 µS/cm	1.77 mg/L		13.4 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:38	02:30	7.45 pH	12.18 °C	570.20 µS/cm	1.56 mg/L		14.4 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:38	03:00	7.43 pH	12.17 °C	571.18 µS/cm	1.42 mg/L		14.6 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:39	03:30	7.42 pH	12.16 °C	571.05 µS/cm	1.35 mg/L		14.5 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:39	04:00	7.41 pH	12.16 °C	561.62 µS/cm	1.38 mg/L		21.8 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:40	04:30	7.40 pH	12.20 °C	563.46 µS/cm	1.44 mg/L		15.5 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:40	05:00	7.40 pH	12.21 °C	571.68 µS/cm	1.51 mg/L		14.4 mV	318.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:

EW2	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/24/2023 11:40:57 AM
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH244.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 5.5 m** **Top of Screen: 4.5 m** **Total Depth: 9.25 m** **Initial Depth to Water: 2.9 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 20000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Overcast

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/24/2023 11:40 AM	00:00	7.89 pH	13.45 °C	619.65 µS/cm	7.41 mg/L		586.0 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:41 AM	00:30	7.91 pH	13.05 °C	637.07 µS/cm	3.55 mg/L		711.7 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:41 AM	01:00	7.90 pH	12.80 °C	633.24 µS/cm	2.20 mg/L		788.1 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:42 AM	01:30	7.89 pH	12.68 °C	633.75 µS/cm	1.93 mg/L		841.3 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:42 AM	02:00	7.88 pH	12.59 °C	632.20 µS/cm	1.90 mg/L		870.4 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:43 AM	02:30	7.86 pH	12.55 °C	632.26 µS/cm	1.95 mg/L		888.5 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:43 AM	03:00	7.85 pH	12.54 °C	634.27 µS/cm	2.00 mg/L		899.0 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:44 AM	03:30	7.84 pH	12.58 °C	637.04 µS/cm	2.05 mg/L		902.8 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:44 AM	04:00	7.83 pH	12.60 °C	640.52 µS/cm	2.09 mg/L		904.2 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:45 AM	04:30	7.82 pH	12.63 °C	642.60 µS/cm	2.12 mg/L		906.3 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:45 AM	05:00	7.81 pH	12.67 °C	644.36 µS/cm	2.13 mg/L		906.1 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:46 AM	05:30	7.80 pH	12.67 °C	646.10 µS/cm	2.14 mg/L		909.3 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:46 AM	06:00	7.80 pH	12.67 °C	648.70 µS/cm	2.16 mg/L		909.2 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:47 AM	06:30	7.79 pH	12.64 °C	651.10 µS/cm	2.15 mg/L		910.9 mV	290.00 cm	2,000.0 ml/min

7/24/2023 11:47 AM	07:00	7.79 pH	12.60 °C	653.40 µS/cm	2.13 mg/L		909.7 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:48 AM	07:30	7.78 pH	12.54 °C	655.45 µS/cm	2.10 mg/L		911.0 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:48 AM	08:00	7.78 pH	12.51 °C	657.31 µS/cm	2.09 mg/L		912.1 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:49 AM	08:30	7.78 pH	12.48 °C	657.95 µS/cm	2.08 mg/L		911.1 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:49 AM	09:00	7.78 pH	12.44 °C	658.61 µS/cm	2.07 mg/L		910.8 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:50 AM	09:30	7.77 pH	12.41 °C	659.13 µS/cm	2.05 mg/L		910.7 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:50 AM	10:00	7.77 pH	12.40 °C	659.29 µS/cm	2.06 mg/L		912.7 mV	290.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 24/07/2023 14:32:52
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH246.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 4.5 m** **Top of Screen: 3.5 m** **Total Depth: 7.86 m** **Initial Depth to Water: 3.08 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 20000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Overcast

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
24/07/2023 14:32	00:00	7.69 pH	19.05 °C	605.95 µS/cm	7.40 mg/L		32.6 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:33	00:30	7.37 pH	17.94 °C	725.98 µS/cm	4.76 mg/L		19.7 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:33	01:00	7.33 pH	17.11 °C	738.67 µS/cm	4.32 mg/L		20.4 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:34	01:30	7.32 pH	16.27 °C	748.41 µS/cm	4.48 mg/L		21.0 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:34	02:00	7.32 pH	15.59 °C	753.26 µS/cm	4.61 mg/L		20.4 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:35	02:30	7.31 pH	15.20 °C	756.66 µS/cm	4.66 mg/L		20.0 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:35	03:00	7.31 pH	14.89 °C	760.05 µS/cm	4.66 mg/L		19.8 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:36	03:30	7.30 pH	14.69 °C	757.44 µS/cm	4.62 mg/L		19.8 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:36	04:00	7.30 pH	14.51 °C	761.01 µS/cm	4.56 mg/L		19.5 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:37	04:30	7.30 pH	14.35 °C	760.64 µS/cm	4.49 mg/L		19.2 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:37	05:00	7.29 pH	14.23 °C	760.81 µS/cm	4.48 mg/L		19.0 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:38	05:30	7.29 pH	14.16 °C	761.46 µS/cm	4.52 mg/L		18.9 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:38	06:00	7.29 pH	14.12 °C	760.23 µS/cm	4.56 mg/L		18.9 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:39	06:30	7.28 pH	14.08 °C	759.29 µS/cm	4.60 mg/L		19.0 mV	308.00 cm	2,000.0 ml/min

24/07/2023 14:39	07:00	7.28 pH	14.04 °C	757.59 µS/cm	4.61 mg/L		19.0 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:40	07:30	7.28 pH	13.99 °C	757.14 µS/cm	4.61 mg/L		18.8 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:40	08:00	7.28 pH	14.00 °C	757.52 µS/cm	4.61 mg/L		18.5 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:41	08:30	7.28 pH	13.94 °C	759.21 µS/cm	4.61 mg/L		17.9 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:41	09:00	7.28 pH	13.88 °C	759.81 µS/cm	4.61 mg/L		18.3 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:42	09:30	7.28 pH	13.85 °C	760.10 µS/cm	4.61 mg/L		18.0 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:42	10:00	7.28 pH	13.81 °C	760.94 µS/cm	4.61 mg/L		18.4 mV	308.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 7/25/2023 2:55:41 PM
Project: GCRE 2
Operator Name: KW

Location Name: S2-BH248.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 3 m** **Top of Screen: 6.5 m** **Total Depth: 9.26 m** **Initial Depth to Water: 6.1 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 18000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/25/2023 2:55 PM	00:00	8.34 pH	23.21 °C	750.51 µS/cm	3.02 mg/L		492.8 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:56 PM	00:30	8.19 pH	20.53 °C	775.89 µS/cm	0.68 mg/L		900.5 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:56 PM	01:00	8.12 pH	18.66 °C	791.30 µS/cm	0.20 mg/L		931.3 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:57 PM	01:30	8.07 pH	17.10 °C	809.07 µS/cm	0.11 mg/L		932.3 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:57 PM	02:00	8.04 pH	16.08 °C	823.11 µS/cm	0.08 mg/L		934.7 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:58 PM	02:30	8.02 pH	15.39 °C	835.66 µS/cm	0.07 mg/L		937.0 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:58 PM	03:00	8.01 pH	14.96 °C	848.38 µS/cm	0.07 mg/L		939.5 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:59 PM	03:30	8.00 pH	14.69 °C	861.13 µS/cm	0.07 mg/L		942.3 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:59 PM	04:00	7.98 pH	14.52 °C	871.37 µS/cm	0.07 mg/L		945.6 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:00 PM	04:30	7.96 pH	14.41 °C	879.27 µS/cm	0.07 mg/L		950.3 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:00 PM	05:00	7.95 pH	14.31 °C	883.35 µS/cm	0.07 mg/L		953.8 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:01 PM	05:30	7.93 pH	14.27 °C	887.64 µS/cm	0.06 mg/L		956.9 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:01 PM	06:00	7.91 pH	14.22 °C	889.91 µS/cm	0.06 mg/L		957.8 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:02 PM	06:30	7.89 pH	14.19 °C	893.73 µS/cm	0.06 mg/L		958.9 mV	610.00 cm	2,000.0 ml/min

7/25/2023 3:02 PM	07:00	7.87 pH	14.18 °C	896.60 µS/cm	0.06 mg/L		961.0 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:03 PM	07:30	7.86 pH	14.15 °C	899.29 µS/cm	0.06 mg/L		962.7 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:03 PM	08:00	7.84 pH	14.16 °C	901.30 µS/cm	0.06 mg/L		960.9 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:04 PM	08:30	7.83 pH	14.17 °C	902.25 µS/cm	0.06 mg/L		962.1 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:04 PM	09:00	7.81 pH	14.18 °C	901.81 µS/cm	0.05 mg/L		961.7 mV	610.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 7/24/2023 2:41:19 PM
Project: GCRE 2
Operator Name: KW

Location Name: S2-BH249.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 4.5 m** **Top of Screen: 3.5 m** **Total Depth: 7.65 m** **Initial Depth to Water: 3.76 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 23000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/24/2023 2:41 PM	00:00	8.07 pH	19.42 °C	819.01 µS/cm	8.07 mg/L		486.3 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:41 PM	00:30	8.10 pH	17.63 °C	896.99 µS/cm	6.50 mg/L		849.0 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:42 PM	01:00	7.99 pH	16.43 °C	901.76 µS/cm	3.68 mg/L		894.7 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:42 PM	01:30	7.91 pH	15.57 °C	918.10 µS/cm	2.95 mg/L		911.8 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:43 PM	02:00	7.86 pH	14.87 °C	930.03 µS/cm	2.89 mg/L		923.0 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:43 PM	02:30	7.82 pH	14.40 °C	938.19 µS/cm	2.93 mg/L		925.6 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:44 PM	03:00	7.78 pH	13.98 °C	934.15 µS/cm	2.96 mg/L		931.6 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:44 PM	03:30	7.75 pH	13.81 °C	937.05 µS/cm	2.96 mg/L		934.6 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:45 PM	04:00	7.73 pH	13.70 °C	940.01 µS/cm	2.96 mg/L		935.4 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:45 PM	04:30	7.71 pH	13.61 °C	939.56 µS/cm	2.96 mg/L		942.7 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:46 PM	05:00	7.70 pH	13.55 °C	938.65 µS/cm	2.97 mg/L		939.8 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:46 PM	05:30	7.68 pH	13.52 °C	938.30 µS/cm	2.97 mg/L		940.3 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:47 PM	06:00	7.67 pH	13.51 °C	938.45 µS/cm	2.98 mg/L		941.3 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:47 PM	06:30	7.66 pH	13.49 °C	937.03 µS/cm	2.98 mg/L		944.4 mV	376.00 cm	2,000.0 ml/min

7/24/2023 2:48 PM	07:00	7.65 pH	13.40 °C	941.69 µS/cm	2.99 mg/L		942.3 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:48 PM	07:30	7.64 pH	13.36 °C	943.47 µS/cm	2.99 mg/L		948.0 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:49 PM	08:00	7.64 pH	13.27 °C	942.96 µS/cm	2.99 mg/L		942.9 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:49 PM	08:30	7.63 pH	13.20 °C	942.05 µS/cm	2.98 mg/L		944.4 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:50 PM	09:00	7.63 pH	13.13 °C	940.80 µS/cm	2.97 mg/L		943.1 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:50 PM	09:30	7.63 pH	13.07 °C	939.72 µS/cm	2.96 mg/L		944.4 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:51 PM	10:00	7.62 pH	13.02 °C	940.00 µS/cm	2.96 mg/L		942.5 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:51 PM	10:30	7.62 pH	12.98 °C	939.98 µS/cm	2.97 mg/L		943.8 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:52 PM	11:00	7.62 pH	12.95 °C	939.79 µS/cm	2.95 mg/L		942.8 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:52 PM	11:30	7.62 pH	12.91 °C	939.82 µS/cm	2.93 mg/L		941.6 mV	376.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
15	

Low-Flow Test Report:

Test Date / Time: 7/26/2023 10:33:02 AM
Project: GCRE 2
Operator Name: KW

Location Name: S2-BH250.1 **Well Diameter: 5 cm** **Screen Length: 2 m** **Top of Screen: 7.5 m** **Total Depth: 9.3 m** **Initial Depth to Water: 3.23 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 18000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/26/2023 10:33 AM	00:00	8.16 pH	14.64 °C	599.71 µS/cm	5.64 mg/L		401.6 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:33 AM	00:30	8.14 pH	13.86 °C	601.58 µS/cm	3.68 mg/L		639.0 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:34 AM	01:00	8.10 pH	13.27 °C	606.02 µS/cm	3.24 mg/L		771.5 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:34 AM	01:30	8.07 pH	12.90 °C	608.61 µS/cm	3.13 mg/L		840.6 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:35 AM	02:00	8.04 pH	12.58 °C	609.86 µS/cm	3.08 mg/L		872.0 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:35 AM	02:30	8.00 pH	12.40 °C	610.83 µS/cm	3.02 mg/L		888.6 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:36 AM	03:00	7.97 pH	12.26 °C	613.22 µS/cm	3.00 mg/L		896.9 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:36 AM	03:30	7.95 pH	12.21 °C	614.56 µS/cm	2.99 mg/L		904.9 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:37 AM	04:00	7.92 pH	12.17 °C	616.15 µS/cm	3.00 mg/L		907.6 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:37 AM	04:30	7.91 pH	12.13 °C	617.68 µS/cm	3.02 mg/L		911.7 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:38 AM	05:00	7.89 pH	12.12 °C	618.85 µS/cm	3.06 mg/L		913.0 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:38 AM	05:30	7.88 pH	12.13 °C	620.03 µS/cm	3.09 mg/L		910.4 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:39 AM	06:00	7.88 pH	12.13 °C	621.02 µS/cm	3.14 mg/L		910.7 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:39 AM	06:30	7.87 pH	12.14 °C	621.93 µS/cm	3.19 mg/L		913.6 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:40 AM	07:00	7.87 pH	12.16 °C	622.87 µS/cm	3.23 mg/L		910.2 mV	323.00 cm	2,000.0 ml/min

7/26/2023 10:40 AM	07:30	7.86 pH	12.16 °C	623.70 µS/cm	3.28 mg/L		909.9 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:41 AM	08:00	7.86 pH	12.17 °C	623.84 µS/cm	3.30 mg/L		912.6 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:41 AM	08:30	7.86 pH	12.17 °C	624.31 µS/cm	3.33 mg/L		909.8 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:42 AM	09:00	7.86 pH	12.17 °C	624.33 µS/cm	3.34 mg/L		909.8 mV	323.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 25/07/2023 12:21:35
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH252.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 3 m** **Top of Screen: 6 m** **Total Depth: 8.87 m** **Initial Depth to Water: 4.07 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 35000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
25/07/2023 12:21	00:00	8.03 pH	20.65 °C	584.68 µS/cm	7.72 mg/L		22.5 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:22	00:30	7.79 pH	17.77 °C	440.59 µS/cm	5.44 mg/L		24.5 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:22	01:00	7.70 pH	16.02 °C	437.84 µS/cm	4.48 mg/L		24.2 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:23	01:30	7.65 pH	14.78 °C	443.23 µS/cm	4.25 mg/L		23.8 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:23	02:00	7.63 pH	13.89 °C	447.45 µS/cm	4.22 mg/L		21.4 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:24	02:30	7.61 pH	13.22 °C	434.31 µS/cm	4.25 mg/L		21.7 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:24	03:00	7.58 pH	12.76 °C	437.14 µS/cm	4.27 mg/L		22.2 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:25	03:30	7.56 pH	12.42 °C	437.62 µS/cm	4.27 mg/L		22.0 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:25	04:00	7.55 pH	12.20 °C	441.86 µS/cm	4.25 mg/L		21.5 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:26	04:30	7.56 pH	12.02 °C	451.67 µS/cm	4.21 mg/L		21.1 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:26	05:00	7.57 pH	11.85 °C	458.93 µS/cm	4.18 mg/L		20.6 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:27	05:30	7.58 pH	11.73 °C	457.15 µS/cm	4.15 mg/L		20.4 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:27	06:00	7.57 pH	11.62 °C	451.41 µS/cm	4.12 mg/L		20.3 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:28	06:30	7.55 pH	11.54 °C	444.49 µS/cm	4.10 mg/L		20.5 mV	407.00 cm	2,000.0 ml/min

25/07/2023 12:28	07:00	7.53 pH	11.46 °C	438.16 µS/cm	4.08 mg/L		20.7 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:29	07:30	7.51 pH	11.38 °C	435.52 µS/cm	4.05 mg/L		21.1 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:29	08:00	7.50 pH	11.33 °C	432.33 µS/cm	4.02 mg/L		21.1 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:30	08:30	7.48 pH	11.29 °C	422.83 µS/cm	3.98 mg/L		34.1 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:30	09:00	7.47 pH	11.24 °C	420.11 µS/cm	3.95 mg/L		24.7 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:31	09:30	7.46 pH	11.21 °C	416.56 µS/cm	3.93 mg/L		37.2 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:31	10:00	7.45 pH	11.18 °C	414.85 µS/cm	3.90 mg/L		25.8 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:32	10:30	7.44 pH	11.14 °C	411.79 µS/cm	3.88 mg/L		38.1 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:32	11:00	7.43 pH	11.12 °C	410.56 µS/cm	3.85 mg/L		26.2 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:33	11:30	7.42 pH	11.11 °C	413.72 µS/cm	3.83 mg/L		23.6 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:33	12:00	7.41 pH	11.10 °C	410.96 µS/cm	3.81 mg/L		22.6 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:34	12:30	7.41 pH	11.10 °C	408.83 µS/cm	3.79 mg/L		22.0 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:34	13:00	7.40 pH	11.08 °C	400.50 µS/cm	3.77 mg/L		34.8 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:35	13:30	7.39 pH	11.07 °C	399.24 µS/cm	3.76 mg/L		24.9 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:35	14:00	7.38 pH	11.07 °C	403.83 µS/cm	3.75 mg/L		23.0 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:36	14:30	7.38 pH	11.07 °C	402.40 µS/cm	3.74 mg/L		22.2 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:36	15:00	7.37 pH	11.06 °C	394.85 µS/cm	3.73 mg/L		34.5 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:37	15:30	7.37 pH	11.03 °C	393.54 µS/cm	3.72 mg/L		24.8 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:37	16:00	7.36 pH	11.01 °C	398.91 µS/cm	3.71 mg/L		23.0 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:38	16:30	7.36 pH	11.01 °C	397.88 µS/cm	3.71 mg/L		22.1 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:38	17:00	7.35 pH	11.01 °C	397.14 µS/cm	3.70 mg/L		21.7 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:39	17:30	7.35 pH	10.99 °C	396.21 µS/cm	3.69 mg/L		21.4 mV	407.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 26/07/2023 10:26:58
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH261.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 5 m** **Top of Screen: 10 m** **Total Depth: 14.08 m** **Initial Depth to Water: 9.2 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 120000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
26/07/2023 10:26	00:00	7.87 pH	14.62 °C	446.05 µS/cm	8.02 mg/L		27.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:27	00:30	7.38 pH	14.49 °C	725.24 µS/cm	5.24 mg/L		-31.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:27	01:00	7.34 pH	14.42 °C	728.19 µS/cm	3.85 mg/L		-33.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:28	01:30	7.32 pH	14.34 °C	724.02 µS/cm	3.05 mg/L		-33.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:28	02:00	7.31 pH	14.28 °C	724.16 µS/cm	2.52 mg/L		-33.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:29	02:30	7.30 pH	14.24 °C	723.22 µS/cm	3.96 mg/L		-33.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:29	03:00	7.30 pH	14.22 °C	718.34 µS/cm	4.73 mg/L		-33.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:30	03:30	7.29 pH	14.22 °C	715.74 µS/cm	5.28 mg/L		-33.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:30	04:00	7.29 pH	14.20 °C	714.98 µS/cm	5.58 mg/L		-33.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:31	04:30	7.29 pH	14.20 °C	707.56 µS/cm	5.74 mg/L		-33.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:31	05:00	7.28 pH	14.21 °C	705.28 µS/cm	5.86 mg/L		-33.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:32	05:30	7.28 pH	14.21 °C	704.57 µS/cm	5.90 mg/L		-33.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:32	06:00	7.28 pH	14.22 °C	703.84 µS/cm	5.86 mg/L		-33.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:33	06:30	7.28 pH	14.22 °C	694.43 µS/cm	5.81 mg/L		-51.4 mV	920.00 cm	2,000.0 ml/min

26/07/2023 10:33	07:00	7.28 pH	14.22 °C	693.61 µS/cm	5.70 mg/L		-36.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:34	07:30	7.28 pH	14.23 °C	693.38 µS/cm	5.61 mg/L		-34.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:34	08:00	7.27 pH	14.24 °C	686.49 µS/cm	5.56 mg/L		-52.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:35	08:30	7.27 pH	14.24 °C	685.65 µS/cm	5.56 mg/L		-36.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:35	09:00	7.27 pH	14.24 °C	683.97 µS/cm	5.58 mg/L		-53.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:36	09:30	7.27 pH	14.25 °C	681.75 µS/cm	5.56 mg/L		-36.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:36	10:00	7.28 pH	14.25 °C	683.93 µS/cm	5.51 mg/L		-34.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:37	10:30	7.27 pH	14.25 °C	677.73 µS/cm	5.50 mg/L		-52.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:37	11:00	7.27 pH	14.26 °C	674.47 µS/cm	5.50 mg/L		-36.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:38	11:30	7.27 pH	14.26 °C	677.59 µS/cm	5.51 mg/L		-34.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:38	12:00	7.27 pH	14.26 °C	672.28 µS/cm	5.48 mg/L		-52.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:39	12:30	7.27 pH	14.26 °C	671.93 µS/cm	5.43 mg/L		-36.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:39	13:00	7.26 pH	14.26 °C	675.00 µS/cm	5.42 mg/L		-34.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:40	13:30	7.26 pH	14.26 °C	674.39 µS/cm	5.41 mg/L		-33.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:40	14:00	7.26 pH	14.26 °C	673.96 µS/cm	5.43 mg/L		-33.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:41	14:30	7.26 pH	14.26 °C	669.12 µS/cm	5.44 mg/L		-50.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:41	15:00	7.26 pH	14.26 °C	669.09 µS/cm	5.47 mg/L		-35.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:42	15:30	7.25 pH	14.26 °C	672.43 µS/cm	5.50 mg/L		-33.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:42	16:00	7.25 pH	14.26 °C	667.80 µS/cm	5.50 mg/L		-51.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:43	16:30	7.25 pH	14.27 °C	667.73 µS/cm	5.47 mg/L		-35.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:43	17:00	7.25 pH	14.26 °C	667.02 µS/cm	5.46 mg/L		-51.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:44	17:30	7.25 pH	14.27 °C	666.94 µS/cm	5.45 mg/L		-36.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:44	18:00	7.25 pH	14.28 °C	670.42 µS/cm	5.42 mg/L		-33.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:45	18:30	7.25 pH	14.28 °C	665.56 µS/cm	5.40 mg/L		-51.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:45	19:00	7.25 pH	14.30 °C	665.25 µS/cm	5.38 mg/L		-35.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:46	19:30	7.24 pH	14.30 °C	664.67 µS/cm	5.36 mg/L		-51.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:46	20:00	7.24 pH	14.30 °C	664.75 µS/cm	5.36 mg/L		-35.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:47	20:30	7.24 pH	14.30 °C	663.77 µS/cm	5.34 mg/L		-51.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:47	21:00	7.24 pH	14.29 °C	663.88 µS/cm	5.31 mg/L		-35.8 mV	920.00 cm	2,000.0 ml/min

26/07/2023 10:48	21:30	7.24 pH	14.29 °C	667.46 µS/cm	5.28 mg/L		-33.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:48	22:00	7.24 pH	14.27 °C	663.05 µS/cm	5.26 mg/L		-50.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:49	22:30	7.24 pH	14.29 °C	663.61 µS/cm	5.23 mg/L		-35.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:49	23:00	7.24 pH	14.29 °C	662.61 µS/cm	5.22 mg/L		-51.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:50	23:30	7.23 pH	14.28 °C	663.33 µS/cm	5.22 mg/L		-35.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:50	24:00	7.23 pH	14.26 °C	663.35 µS/cm	5.20 mg/L		-51.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:51	24:30	7.23 pH	14.25 °C	663.55 µS/cm	5.19 mg/L		-35.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:51	25:00	7.23 pH	14.23 °C	666.62 µS/cm	5.19 mg/L		-33.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:52	25:30	7.23 pH	14.22 °C	662.85 µS/cm	5.18 mg/L		-50.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:52	26:00	7.23 pH	14.22 °C	662.74 µS/cm	5.16 mg/L		-35.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:53	26:30	7.23 pH	14.21 °C	665.93 µS/cm	5.14 mg/L		-33.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:53	27:00	7.23 pH	14.19 °C	661.72 µS/cm	5.12 mg/L		-49.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:54	27:30	7.23 pH	14.18 °C	661.56 µS/cm	5.10 mg/L		-34.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:54	28:00	7.23 pH	14.17 °C	664.72 µS/cm	5.10 mg/L		-32.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:55	28:30	7.23 pH	14.17 °C	664.52 µS/cm	5.09 mg/L		-32.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:55	29:00	7.23 pH	14.17 °C	660.14 µS/cm	5.08 mg/L		-49.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:56	29:30	7.23 pH	14.17 °C	660.16 µS/cm	5.08 mg/L		-34.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:56	30:00	7.23 pH	14.17 °C	659.40 µS/cm	5.06 mg/L		-50.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:57	30:30	7.23 pH	14.17 °C	659.49 µS/cm	5.05 mg/L		-34.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:57	31:00	7.23 pH	14.17 °C	662.65 µS/cm	5.04 mg/L		-32.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:58	31:30	7.23 pH	14.17 °C	658.72 µS/cm	5.03 mg/L		-49.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:58	32:00	7.23 pH	14.17 °C	659.08 µS/cm	5.01 mg/L		-34.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:59	32:30	7.23 pH	14.17 °C	658.47 µS/cm	5.01 mg/L		-50.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:59	33:00	7.23 pH	14.17 °C	658.54 µS/cm	5.00 mg/L		-35.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:00	33:30	7.23 pH	14.17 °C	658.03 µS/cm	4.99 mg/L		-50.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:00	34:00	7.23 pH	14.18 °C	658.07 µS/cm	4.98 mg/L		-35.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:01	34:30	7.23 pH	14.18 °C	657.64 µS/cm	4.99 mg/L		-50.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:01	35:00	7.23 pH	14.20 °C	657.57 µS/cm	4.98 mg/L		-35.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:02	35:30	7.23 pH	14.20 °C	656.96 µS/cm	4.95 mg/L		-50.8 mV	920.00 cm	2,000.0 ml/min

26/07/2023 11:02	36:00	7.23 pH	14.22 °C	657.13 µS/cm	4.94 mg/L		-35.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:03	36:30	7.23 pH	14.22 °C	661.23 µS/cm	4.93 mg/L		-33.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:03	37:00	7.23 pH	14.21 °C	657.92 µS/cm	4.92 mg/L		-49.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:04	37:30	7.23 pH	14.22 °C	657.97 µS/cm	4.92 mg/L		-34.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:04	38:00	7.23 pH	14.23 °C	657.39 µS/cm	4.92 mg/L		-50.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:05	38:30	7.23 pH	14.24 °C	657.32 µS/cm	4.92 mg/L		-35.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:05	39:00	7.23 pH	14.24 °C	657.17 µS/cm	4.94 mg/L		-50.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:06	39:30	7.23 pH	14.26 °C	656.99 µS/cm	4.96 mg/L		-35.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:06	40:00	7.23 pH	14.26 °C	656.27 µS/cm	4.97 mg/L		-50.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:07	40:30	7.23 pH	14.26 °C	656.30 µS/cm	4.98 mg/L		-35.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:07	41:00	7.23 pH	14.26 °C	655.93 µS/cm	4.99 mg/L		-50.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:08	41:30	7.22 pH	14.28 °C	655.76 µS/cm	5.00 mg/L		-35.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:08	42:00	7.22 pH	14.28 °C	655.37 µS/cm	4.99 mg/L		-33.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:09	42:30	7.22 pH	14.29 °C	658.44 µS/cm	4.99 mg/L		-32.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:09	43:00	7.22 pH	14.29 °C	654.80 µS/cm	4.97 mg/L		-49.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:10	43:30	7.22 pH	14.30 °C	654.73 µS/cm	4.96 mg/L		-34.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:10	44:00	7.22 pH	14.30 °C	654.66 µS/cm	4.98 mg/L		-50.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:11	44:30	7.22 pH	14.31 °C	654.62 µS/cm	4.97 mg/L		-34.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:11	45:00	7.22 pH	14.31 °C	654.09 µS/cm	4.97 mg/L		-50.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:12	45:30	7.22 pH	14.30 °C	656.62 µS/cm	4.98 mg/L		-34.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:12	46:00	7.22 pH	14.31 °C	653.91 µS/cm	4.97 mg/L		-33.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:13	46:30	7.22 pH	14.30 °C	655.63 µS/cm	4.97 mg/L		-32.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:13	47:00	7.22 pH	14.31 °C	656.65 µS/cm	4.97 mg/L		-31.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:14	47:30	7.22 pH	14.31 °C	653.22 µS/cm	4.97 mg/L		-48.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:14	48:00	7.22 pH	14.31 °C	653.21 µS/cm	4.96 mg/L		-34.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:15	48:30	7.22 pH	14.31 °C	652.85 µS/cm	4.97 mg/L		-49.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:15	49:00	7.22 pH	14.32 °C	652.75 µS/cm	4.96 mg/L		-34.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:16	49:30	7.22 pH	14.32 °C	655.67 µS/cm	4.96 mg/L		-32.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:16	50:00	7.22 pH	14.32 °C	652.29 µS/cm	4.96 mg/L		-49.4 mV	920.00 cm	2,000.0 ml/min

26/07/2023 11:17	50:30	7.22 pH	14.33 °C	653.71 µS/cm	4.96 mg/L		-34.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:17	51:00	7.22 pH	14.34 °C	653.31 µS/cm	4.96 mg/L		-50.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:18	51:30	7.22 pH	14.35 °C	653.44 µS/cm	4.96 mg/L		-35.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:18	52:00	7.22 pH	14.35 °C	653.53 µS/cm	4.96 mg/L		-50.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:19	52:30	7.22 pH	14.37 °C	653.59 µS/cm	4.95 mg/L		-35.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:19	53:00	7.22 pH	14.40 °C	653.12 µS/cm	4.95 mg/L		-50.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:20	53:30	7.22 pH	14.40 °C	653.32 µS/cm	4.96 mg/L		-35.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:20	54:00	7.22 pH	14.41 °C	652.83 µS/cm	4.95 mg/L		-50.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:21	54:30	7.22 pH	14.43 °C	652.68 µS/cm	4.94 mg/L		-35.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:21	55:00	7.22 pH	14.42 °C	652.13 µS/cm	4.94 mg/L		-50.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:22	55:30	7.22 pH	14.43 °C	651.95 µS/cm	4.94 mg/L		-35.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:22	56:00	7.22 pH	14.42 °C	651.83 µS/cm	4.94 mg/L		-50.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:23	56:30	7.22 pH	14.41 °C	651.79 µS/cm	4.94 mg/L		-35.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:23	57:00	7.22 pH	14.41 °C	654.65 µS/cm	4.94 mg/L		-33.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:24	57:30	7.22 pH	14.40 °C	654.54 µS/cm	4.93 mg/L		-32.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:24	58:00	7.22 pH	14.40 °C	654.50 µS/cm	4.93 mg/L		-32.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:25	58:30	7.22 pH	14.40 °C	650.98 µS/cm	4.91 mg/L		-48.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:25	59:00	7.22 pH	14.40 °C	651.10 µS/cm	4.90 mg/L		-34.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:26	59:30	7.22 pH	14.37 °C	653.96 µS/cm	4.91 mg/L		-32.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:26	01:00:00	7.22 pH	14.35 °C	653.94 µS/cm	4.90 mg/L		-32.1 mV	920.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 25/07/2023 15:41:41
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH261.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 5 m** **Top of Screen: 3 m** **Total Depth: 7.7 m** **Initial Depth to Water: 4.46 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 120000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
25/07/2023 15:41	00:00	7.98 pH	21.66 °C	431.59 µS/cm	8.05 mg/L		44.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:42	00:30	7.65 pH	19.45 °C	420.51 µS/cm	7.24 mg/L		41.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:42	01:00	7.50 pH	18.21 °C	423.09 µS/cm	7.07 mg/L		40.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:43	01:30	7.42 pH	17.27 °C	427.07 µS/cm	7.11 mg/L		39.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:43	02:00	7.38 pH	16.74 °C	430.54 µS/cm	7.16 mg/L		38.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:44	02:30	7.35 pH	16.31 °C	432.44 µS/cm	7.21 mg/L		38.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:44	03:00	7.34 pH	15.98 °C	434.22 µS/cm	7.23 mg/L		37.2 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:45	03:30	7.32 pH	15.75 °C	435.19 µS/cm	7.25 mg/L		36.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:45	04:00	7.31 pH	15.54 °C	435.27 µS/cm	7.26 mg/L		36.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:46	04:30	7.30 pH	15.42 °C	436.17 µS/cm	7.27 mg/L		35.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:46	05:00	7.29 pH	15.30 °C	428.67 µS/cm	7.28 mg/L		57.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:47	05:30	7.29 pH	15.21 °C	429.02 µS/cm	7.29 mg/L		40.2 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:47	06:00	7.28 pH	15.12 °C	428.24 µS/cm	7.28 mg/L		60.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:48	06:30	7.28 pH	15.03 °C	428.62 µS/cm	7.29 mg/L		40.9 mV	446.00 cm	2,000.0 ml/min

25/07/2023 15:48	07:00	7.27 pH	14.97 °C	428.73 µS/cm	7.30 mg/L		37.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:49	07:30	7.27 pH	14.93 °C	435.96 µS/cm	7.29 mg/L		35.7 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:49	08:00	7.27 pH	14.89 °C	428.50 µS/cm	7.29 mg/L		55.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:50	08:30	7.26 pH	14.86 °C	429.15 µS/cm	7.30 mg/L		38.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:50	09:00	7.26 pH	14.87 °C	437.16 µS/cm	7.31 mg/L		35.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:51	09:30	7.26 pH	14.90 °C	429.46 µS/cm	7.31 mg/L		55.2 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:51	10:00	7.26 pH	14.92 °C	429.87 µS/cm	7.31 mg/L		38.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:52	10:30	7.26 pH	14.94 °C	437.08 µS/cm	7.31 mg/L		35.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:52	11:00	7.25 pH	14.94 °C	429.59 µS/cm	7.32 mg/L		54.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:53	11:30	7.25 pH	14.96 °C	430.05 µS/cm	7.31 mg/L		37.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:53	12:00	7.25 pH	14.97 °C	429.66 µS/cm	7.32 mg/L		56.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:54	12:30	7.25 pH	14.98 °C	429.96 µS/cm	7.31 mg/L		38.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:54	13:00	7.25 pH	14.95 °C	429.36 µS/cm	7.31 mg/L		56.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:55	13:30	7.25 pH	14.94 °C	429.73 µS/cm	7.31 mg/L		38.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:55	14:00	7.25 pH	14.91 °C	428.54 µS/cm	7.31 mg/L		56.2 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:56	14:30	7.25 pH	14.89 °C	430.08 µS/cm	7.31 mg/L		38.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:56	15:00	7.25 pH	14.85 °C	429.17 µS/cm	7.30 mg/L		55.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:57	15:30	7.25 pH	14.83 °C	429.47 µS/cm	7.30 mg/L		38.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:57	16:00	7.25 pH	14.81 °C	429.24 µS/cm	7.31 mg/L		55.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:58	16:30	7.24 pH	14.84 °C	429.98 µS/cm	7.31 mg/L		37.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:58	17:00	7.24 pH	14.85 °C	429.51 µS/cm	7.31 mg/L		55.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:59	17:30	7.24 pH	14.85 °C	430.01 µS/cm	7.31 mg/L		37.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:59	18:00	7.24 pH	14.88 °C	437.79 µS/cm	7.31 mg/L		34.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:00	18:30	7.24 pH	14.89 °C	429.48 µS/cm	7.31 mg/L		52.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:00	19:00	7.24 pH	14.88 °C	429.89 µS/cm	7.30 mg/L		37.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:01	19:30	7.24 pH	14.86 °C	437.45 µS/cm	7.30 mg/L		34.2 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:01	20:00	7.24 pH	14.85 °C	437.13 µS/cm	7.30 mg/L		32.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:02	20:30	7.24 pH	14.84 °C	436.77 µS/cm	7.30 mg/L		32.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:02	21:00	7.24 pH	14.81 °C	429.20 µS/cm	7.30 mg/L		49.8 mV	446.00 cm	2,000.0 ml/min

25/07/2023 16:03	21:30	7.24 pH	14.80 °C	429.65 µS/cm	7.30 mg/L		35.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:03	22:00	7.24 pH	14.76 °C	429.10 µS/cm	7.30 mg/L		52.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:04	22:30	7.24 pH	14.75 °C	428.85 µS/cm	7.30 mg/L		59.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:04	23:00	7.24 pH	14.72 °C	429.54 µS/cm	7.30 mg/L		38.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:05	23:30	7.24 pH	14.72 °C	436.93 µS/cm	7.30 mg/L		35.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:05	24:00	7.24 pH	14.69 °C	429.06 µS/cm	7.30 mg/L		52.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:06	24:30	7.24 pH	14.67 °C	429.26 µS/cm	7.30 mg/L		36.7 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:06	25:00	7.24 pH	14.67 °C	428.65 µS/cm	7.30 mg/L		53.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:07	25:30	7.23 pH	14.66 °C	429.04 µS/cm	7.29 mg/L		37.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:07	26:00	7.24 pH	14.64 °C	436.98 µS/cm	7.30 mg/L		33.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:08	26:30	7.23 pH	14.62 °C	428.80 µS/cm	7.30 mg/L		51.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:08	27:00	7.23 pH	14.62 °C	429.26 µS/cm	7.30 mg/L		35.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:09	27:30	7.23 pH	14.62 °C	428.80 µS/cm	7.30 mg/L		52.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:09	28:00	7.23 pH	14.63 °C	429.71 µS/cm	7.31 mg/L		36.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:10	28:30	7.23 pH	14.66 °C	437.75 µS/cm	7.31 mg/L		33.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:10	29:00	7.23 pH	14.70 °C	429.52 µS/cm	7.31 mg/L		50.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:11	29:30	7.23 pH	14.74 °C	430.17 µS/cm	7.31 mg/L		35.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:11	30:00	7.23 pH	14.76 °C	429.26 µS/cm	7.31 mg/L		51.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:12	30:30	7.23 pH	14.79 °C	430.02 µS/cm	7.31 mg/L		35.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:12	31:00	7.23 pH	14.82 °C	438.09 µS/cm	7.31 mg/L		33.2 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:13	31:30	7.23 pH	14.85 °C	429.60 µS/cm	7.31 mg/L		49.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:13	32:00	7.23 pH	14.87 °C	430.25 µS/cm	7.31 mg/L		35.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:14	32:30	7.23 pH	14.90 °C	430.14 µS/cm	7.31 mg/L		32.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:14	33:00	7.23 pH	14.87 °C	437.57 µS/cm	7.29 mg/L		31.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:15	33:30	7.23 pH	14.87 °C	429.37 µS/cm	7.30 mg/L		48.7 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:15	34:00	7.23 pH	14.89 °C	429.86 µS/cm	7.30 mg/L		34.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:16	34:30	7.23 pH	14.89 °C	429.48 µS/cm	7.30 mg/L		50.7 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:16	35:00	7.23 pH	14.91 °C	429.92 µS/cm	7.30 mg/L		35.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:17	35:30	7.23 pH	14.92 °C	429.12 µS/cm	7.29 mg/L		51.4 mV	446.00 cm	2,000.0 ml/min

25/07/2023 16:17	36:00	7.23 pH	14.87 °C	429.55 µS/cm	7.29 mg/L		35.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:18	36:30	7.23 pH	14.85 °C	437.51 µS/cm	7.29 mg/L		32.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:18	37:00	7.23 pH	14.89 °C	429.30 µS/cm	7.30 mg/L		49.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:19	37:30	7.23 pH	14.90 °C	430.14 µS/cm	7.30 mg/L		34.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:19	38:00	7.23 pH	14.89 °C	429.21 µS/cm	7.29 mg/L		51.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:20	38:30	7.23 pH	14.85 °C	429.72 µS/cm	7.28 mg/L		35.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:20	39:00	7.23 pH	14.83 °C	428.77 µS/cm	7.29 mg/L		51.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:21	39:30	7.23 pH	14.81 °C	429.54 µS/cm	7.29 mg/L		35.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:21	40:00	7.23 pH	14.83 °C	437.87 µS/cm	7.29 mg/L		32.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:22	40:30	7.22 pH	14.85 °C	429.29 µS/cm	7.30 mg/L		49.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:22	41:00	7.23 pH	14.79 °C	429.42 µS/cm	7.28 mg/L		34.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:23	41:30	7.23 pH	14.76 °C	428.74 µS/cm	7.29 mg/L		50.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:23	42:00	7.23 pH	14.73 °C	429.39 µS/cm	7.29 mg/L		34.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:24	42:30	7.23 pH	14.72 °C	428.90 µS/cm	7.29 mg/L		50.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:24	43:00	7.23 pH	14.70 °C	429.37 µS/cm	7.29 mg/L		34.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:25	43:30	7.23 pH	14.67 °C	428.94 µS/cm	7.29 mg/L		50.7 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:25	44:00	7.23 pH	14.67 °C	429.57 µS/cm	7.29 mg/L		35.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:26	44:30	7.22 pH	14.66 °C	428.77 µS/cm	7.29 mg/L		50.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:26	45:00	7.23 pH	14.64 °C	429.36 µS/cm	7.29 mg/L		35.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:27	45:30	7.23 pH	14.62 °C	428.80 µS/cm	7.29 mg/L		50.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:27	46:00	7.23 pH	14.62 °C	429.42 µS/cm	7.29 mg/L		34.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:28	46:30	7.22 pH	14.60 °C	428.94 µS/cm	7.29 mg/L		50.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:28	47:00	7.22 pH	14.60 °C	429.45 µS/cm	7.29 mg/L		34.7 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:29	47:30	7.22 pH	14.59 °C	437.81 µS/cm	7.29 mg/L		32.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:29	48:00	7.22 pH	14.58 °C	429.05 µS/cm	7.30 mg/L		47.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:30	48:30	7.22 pH	14.62 °C	430.05 µS/cm	7.30 mg/L		33.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:30	49:00	7.22 pH	14.67 °C	429.23 µS/cm	7.29 mg/L		48.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:31	49:30	7.22 pH	14.67 °C	429.85 µS/cm	7.30 mg/L		34.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:31	50:00	7.22 pH	14.67 °C	429.17 µS/cm	7.30 mg/L		49.3 mV	446.00 cm	2,000.0 ml/min

25/07/2023 16:32	50:30	7.22 pH	14.68 °C	429.76 µS/cm	7.30 mg/L		34.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:32	51:00	7.22 pH	14.71 °C	429.21 µS/cm	7.30 mg/L		49.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:33	51:30	7.22 pH	14.74 °C	429.80 µS/cm	7.30 mg/L		34.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:33	52:00	7.22 pH	14.76 °C	438.00 µS/cm	7.30 mg/L		31.7 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:34	52:30	7.22 pH	14.77 °C	429.31 µS/cm	7.30 mg/L		47.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:34	53:00	7.22 pH	14.80 °C	429.67 µS/cm	7.30 mg/L		33.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:35	53:30	7.22 pH	14.80 °C	429.17 µS/cm	7.29 mg/L		48.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:35	54:00	7.22 pH	14.81 °C	429.72 µS/cm	7.30 mg/L		33.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:36	54:30	7.22 pH	14.83 °C	438.05 µS/cm	7.29 mg/L		31.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:36	55:00	7.22 pH	14.84 °C	429.69 µS/cm	7.29 mg/L		30.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:37	55:30	7.22 pH	14.85 °C	438.02 µS/cm	7.28 mg/L		29.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:37	56:00	7.22 pH	14.85 °C	429.21 µS/cm	7.29 mg/L		45.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:38	56:30	7.22 pH	14.86 °C	429.82 µS/cm	7.30 mg/L		32.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:38	57:00	7.22 pH	14.86 °C	429.13 µS/cm	7.29 mg/L		47.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:39	57:30	7.22 pH	14.87 °C	429.78 µS/cm	7.29 mg/L		33.2 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:39	58:00	7.22 pH	14.87 °C	429.06 µS/cm	7.29 mg/L		48.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:40	58:30	7.22 pH	14.87 °C	429.88 µS/cm	7.29 mg/L		33.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:40	59:00	7.22 pH	14.87 °C	429.08 µS/cm	7.29 mg/L		48.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:41	59:30	7.22 pH	14.88 °C	429.56 µS/cm	7.29 mg/L		33.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:41	01:00:00	7.22 pH	14.87 °C	437.94 µS/cm	7.29 mg/L		31.2 mV	446.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Low-Flow Test Report:

Test Date / Time: 8/29/2023 1:40:39 PM
Project: GCRE 3
Operator Name: KW

Location Name: S1-BH118 **Well Diameter: 5 cm** **Total Depth: 15 m** **Initial Depth to Water: 7.13 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 12000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Raining

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/29/2023 1:40 PM	00:00	7.00 pH	12.76 °C	496.48 µS/cm	1.32 mg/L		604.6 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:41 PM	00:30	6.99 pH	12.36 °C	493.61 µS/cm	0.46 mg/L		1,081.7 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:41 PM	01:00	6.72 pH	12.10 °C	486.81 µS/cm	0.22 mg/L		1,129.1 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:42 PM	01:30	6.58 pH	11.88 °C	470.15 µS/cm	0.15 mg/L		1,131.8 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:42 PM	02:00	6.47 pH	11.75 °C	452.51 µS/cm	0.12 mg/L		1,128.4 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:43 PM	02:30	6.37 pH	11.66 °C	433.77 µS/cm	0.11 mg/L		1,128.8 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:43 PM	03:00	6.37 pH	11.62 °C	418.08 µS/cm	0.10 mg/L		1,130.0 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:44 PM	03:30	6.31 pH	11.60 °C	405.93 µS/cm	0.09 mg/L		1,133.0 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:44 PM	04:00	6.29 pH	11.58 °C	397.67 µS/cm	0.08 mg/L		1,133.2 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:45 PM	04:30	6.29 pH	11.58 °C	391.96 µS/cm	0.08 mg/L		1,137.4 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:45 PM	05:00	6.24 pH	11.58 °C	388.05 µS/cm	0.07 mg/L		1,132.4 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:46 PM	05:30	6.23 pH	11.61 °C	386.12 µS/cm	0.07 mg/L		1,136.8 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:46 PM	06:00	6.23 pH	11.62 °C	384.96 µS/cm	0.07 mg/L		1,140.5 mV	713.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW3	

Low-Flow Test Report:

Test Date / Time: 8/29/2023 1:03:06 PM
Project: GCRE 3
Operator Name: KW

Location Name: S1-BH119.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 7 m** **Top of Screen: 8 m** **Total Depth: 15 m** **Initial Depth to Water: 8 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 9000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Raining

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/29/2023 1:03 PM	00:00	7.14 pH	12.23 °C	405.81 µS/cm	0.81 mg/L		749.6 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:03 PM	00:30	7.09 pH	11.85 °C	402.26 µS/cm	0.25 mg/L		1,108.3 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:04 PM	01:00	6.93 pH	11.66 °C	397.09 µS/cm	0.14 mg/L		1,143.2 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:04 PM	01:30	6.80 pH	11.57 °C	393.59 µS/cm	0.10 mg/L		1,151.2 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:05 PM	02:00	6.70 pH	11.49 °C	389.17 µS/cm	0.09 mg/L		1,152.2 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:05 PM	02:30	6.63 pH	11.43 °C	385.81 µS/cm	0.07 mg/L		1,152.5 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:06 PM	03:00	6.58 pH	11.41 °C	383.71 µS/cm	0.07 mg/L		1,150.7 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:06 PM	03:30	6.54 pH	11.39 °C	382.63 µS/cm	0.06 mg/L		1,148.8 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:07 PM	04:00	6.51 pH	11.38 °C	382.07 µS/cm	0.05 mg/L		1,148.5 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:07 PM	04:30	6.48 pH	11.38 °C	381.86 µS/cm	0.05 mg/L		1,147.5 mV	800.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:

EW3	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/29/2023 2:20:50 PM
Project: GCRE 3
Operator Name: KW

Location Name: S1-BH120 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 8 m** **Top of Screen: 12 m** **Total Depth: 20.54 m** **Initial Depth to Water: 9.1 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 9000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/29/2023 2:20 PM	00:00	7.02 pH	13.59 °C	295.40 µS/cm	2.19 mg/L		643.7 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:21 PM	00:30	7.05 pH	13.01 °C	310.09 µS/cm	0.74 mg/L		1,112.4 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:21 PM	01:00	6.90 pH	12.55 °C	317.91 µS/cm	0.27 mg/L		1,147.4 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:22 PM	01:30	6.73 pH	12.35 °C	322.79 µS/cm	0.17 mg/L		1,151.3 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:22 PM	02:00	6.61 pH	12.17 °C	325.61 µS/cm	0.13 mg/L		1,148.6 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:23 PM	02:30	6.54 pH	12.05 °C	327.75 µS/cm	0.11 mg/L		1,143.1 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:23 PM	03:00	6.50 pH	11.99 °C	328.23 µS/cm	0.10 mg/L		1,139.4 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:24 PM	03:30	6.48 pH	11.97 °C	326.28 µS/cm	0.09 mg/L		1,138.7 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:24 PM	04:00	6.47 pH	11.95 °C	323.05 µS/cm	0.09 mg/L		1,139.2 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:25 PM	04:30	6.44 pH	11.98 °C	319.46 µS/cm	0.08 mg/L		1,137.0 mV	910.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:

EW3	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/4/2023 2:12:29 PM
Project: GCRE 3
Operator Name: KW

Location Name: S2-BH217.1 **Well Diameter: 1.9 cm** **Total Depth: 29.96 m** **Initial Depth to Water: 16.42 m**	**Pump Type: Waterra** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 1000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Dry

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
9/4/2023 2:12 PM	00:00	6.64 pH	22.09 °C	636.30 µS/cm	3.72 mg/L		821.4 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:12 PM	00:30	6.77 pH	18.95 °C	639.74 µS/cm	2.06 mg/L		1,161.2 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:13 PM	01:00	6.69 pH	17.41 °C	657.56 µS/cm	1.89 mg/L		1,179.8 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:13 PM	01:30	6.60 pH	16.69 °C	662.81 µS/cm	1.84 mg/L		1,186.1 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:14 PM	02:00	6.52 pH	16.13 °C	665.99 µS/cm	1.74 mg/L		1,188.9 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:14 PM	02:30	6.46 pH	15.84 °C	672.66 µS/cm	1.69 mg/L		1,190.9 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:15 PM	03:00	6.43 pH	15.75 °C	678.51 µS/cm	1.73 mg/L		1,191.9 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:15 PM	03:30	6.39 pH	15.66 °C	683.55 µS/cm	1.80 mg/L		1,192.7 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:16 PM	04:00	6.36 pH	15.65 °C	688.48 µS/cm	1.86 mg/L		1,193.2 mV	1,642.0 cm	1,000.00 ml/min

Samples

Sample ID:	Description:
Ew3	

Low-Flow Test Report:

Test Date / Time: 8/31/2023 1:04:36 PM
Project: GCRE 3
Operator Name: KW

Location Name: S2-BH229 **Well Diameter: 5 cm** **Total Depth: 14.2 m** **Initial Depth to Water: 12.4 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 7000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Heavy rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/31/2023 1:04 PM	00:00	5.99 pH	12.54 °C	763.63 µS/cm	0.77 mg/L		726.4 mV	1,240.0 cm	2,000.0 ml/min
8/31/2023 1:05 PM	00:30	6.38 pH	12.19 °C	761.00 µS/cm	0.39 mg/L		1,142.2 mV	1,240.0 cm	2,000.0 ml/min
8/31/2023 1:05 PM	01:00	6.30 pH	11.94 °C	761.20 µS/cm	0.32 mg/L		1,174.6 mV	1,240.0 cm	2,000.0 ml/min
8/31/2023 1:06 PM	01:30	6.27 pH	11.79 °C	759.48 µS/cm	0.39 mg/L		1,183.9 mV	1,240.0 cm	2,000.0 ml/min
8/31/2023 1:06 PM	02:00	6.24 pH	11.71 °C	758.77 µS/cm	0.50 mg/L		1,188.3 mV	1,240.0 cm	2,000.0 ml/min
8/31/2023 1:07 PM	02:30	6.20 pH	11.66 °C	760.07 µS/cm	0.53 mg/L		1,190.6 mV	1,240.0 cm	2,000.0 ml/min
8/31/2023 1:07 PM	03:00	6.16 pH	11.63 °C	763.85 µS/cm	0.47 mg/L		1,191.2 mV	1,240.0 cm	2,000.0 ml/min
8/31/2023 1:08 PM	03:30	6.15 pH	11.64 °C	768.24 µS/cm	0.38 mg/L		1,191.8 mV	1,240.0 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 25/08/2023 13:52:52
Project: GCRE-S2-BH237
Operator Name:

Location Name: BH237 **Initial Depth to Water: 12.47 m**	**Estimated Total Volume Pumped: 20000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
25/08/2023 13:52	00:00	7.97 pH	15.92 °C	920.54 µS/cm	8.45 mg/L		5.5 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:53	00:30	7.72 pH	15.52 °C	601.54 µS/cm	5.41 mg/L		-12.4 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:53	01:00	6.76 pH	14.13 °C	313.94 µS/cm	1.86 mg/L		-20.3 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:54	01:30	6.60 pH	13.40 °C	300.77 µS/cm	0.67 mg/L		-11.2 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:54	02:00	6.46 pH	12.67 °C	275.58 µS/cm	0.36 mg/L		4.9 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:55	02:30	6.40 pH	12.22 °C	271.23 µS/cm	0.26 mg/L		12.7 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:55	03:00	6.38 pH	11.97 °C	270.25 µS/cm	0.22 mg/L		18.8 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:56	03:30	6.34 pH	11.84 °C	259.70 µS/cm	0.20 mg/L		22.9 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:56	04:00	6.29 pH	11.75 °C	249.96 µS/cm	0.19 mg/L		27.0 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:57	04:30	6.26 pH	11.73 °C	244.53 µS/cm	0.18 mg/L		29.9 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:57	05:00	6.24 pH	11.71 °C	243.77 µS/cm	0.17 mg/L		42.9 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:58	05:30	6.22 pH	11.73 °C	243.98 µS/cm	0.17 mg/L		34.4 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:58	06:00	6.21 pH	11.75 °C	245.86 µS/cm	0.16 mg/L		34.8 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:59	06:30	6.21 pH	11.78 °C	248.06 µS/cm	0.16 mg/L		34.8 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:59	07:00	6.21 pH	11.81 °C	249.05 µS/cm	0.16 mg/L		34.9 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 14:00	07:30	6.21 pH	11.84 °C	248.67 µS/cm	0.15 mg/L		34.9 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 14:00	08:00	6.20 pH	11.84 °C	248.40 µS/cm	0.15 mg/L		35.5 mV	1,247.0 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
BH237	

Low-Flow Test Report:

Test Date / Time: 22/08/2023 15:27:56
Project: GCRE-S2-BH239#1
Operator Name:

Location Name: BH239#1 **Initial Depth to Water: 1.37 m**	**Estimated Total Volume Pumped: 22000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
22/08/2023 15:27	00:00	7.53 pH	15.90 °C	1,035.4 µS/cm	1.96 mg/L		-50.1 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:28	00:30	7.47 pH	15.68 °C	1,045.1 µS/cm	0.84 mg/L		-39.1 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:28	01:00	7.45 pH	15.57 °C	1,050.4 µS/cm	0.44 mg/L		-37.1 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:29	01:30	7.44 pH	15.48 °C	1,047.9 µS/cm	0.31 mg/L		-36.6 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:29	02:00	7.43 pH	15.43 °C	1,043.9 µS/cm	0.27 mg/L		-36.3 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:30	02:30	7.42 pH	15.39 °C	1,042.3 µS/cm	0.25 mg/L		-35.5 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:30	03:00	7.41 pH	15.39 °C	1,041.4 µS/cm	0.24 mg/L		-34.7 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:31	03:30	7.41 pH	15.39 °C	1,040.5 µS/cm	0.23 mg/L		-34.1 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:31	04:00	7.41 pH	15.39 °C	1,039.5 µS/cm	0.22 mg/L		-33.3 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:32	04:30	7.41 pH	15.39 °C	1,038.6 µS/cm	0.22 mg/L		-32.4 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:32	05:00	7.40 pH	15.39 °C	1,037.5 µS/cm	0.21 mg/L		-31.5 mV	137.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
BH239#1	

Low-Flow Test Report:

Test Date / Time: 22/08/2023 15:42:13
Project: GCRE-S2-BH239#2
Operator Name:

Location Name: GCRE-S2-BH239#2	**Estimated Total Volume Pumped: 28000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
22/08/2023 15:42	00:00	7.42 pH	16.09 °C	1,034.2 µS/cm	1.93 mg/L		-35.5 mV		2,000.0 ml/min
22/08/2023 15:42	00:30	7.42 pH	15.68 °C	1,014.8 µS/cm	2.51 mg/L		-23.4 mV		2,000.0 ml/min
22/08/2023 15:43	01:00	7.41 pH	15.34 °C	1,017.1 µS/cm	1.36 mg/L		-17.3 mV		2,000.0 ml/min
22/08/2023 15:43	01:30	7.41 pH	15.17 °C	1,020.4 µS/cm	0.91 mg/L		-16.1 mV		2,000.0 ml/min
22/08/2023 15:44	02:00	7.41 pH	15.09 °C	1,025.1 µS/cm	0.57 mg/L		-15.1 mV		2,000.0 ml/min
22/08/2023 15:44	02:30	7.41 pH	15.04 °C	1,025.6 µS/cm	0.42 mg/L		-14.1 mV		2,000.0 ml/min
22/08/2023 15:45	03:00	7.41 pH	15.03 °C	1,027.4 µS/cm	0.34 mg/L		-13.5 mV		2,000.0 ml/min
22/08/2023 15:45	03:30	7.41 pH	14.99 °C	1,028.2 µS/cm	0.29 mg/L		-13.0 mV		2,000.0 ml/min
22/08/2023 15:46	04:00	7.41 pH	15.00 °C	1,028.4 µS/cm	0.26 mg/L		-13.0 mV		2,000.0 ml/min
22/08/2023 15:46	04:30	7.41 pH	15.01 °C	1,029.6 µS/cm	0.17 mg/L		-13.0 mV		2,000.0 ml/min
22/08/2023 15:47	05:00	7.41 pH	15.00 °C	1,030.0 µS/cm	0.13 mg/L		-12.9 mV		2,000.0 ml/min

Samples

Sample ID:	Description:
BH239#2	

Low-Flow Test Report:

Test Date / Time: 22/08/2023 14:52:22
Project: GCRE-S2-BH240
Operator Name:

Location Name: BH240 **Initial Depth to Water: 1.51 m**	**Estimated Total Volume Pumped: 34000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
22/08/2023 14:52	00:00	8.08 pH	20.57 °C	1.33 µS/cm	8.03 mg/L		49.4 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:52	00:30	7.96 pH	20.57 °C	1.32 µS/cm	8.03 mg/L		37.7 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:53	01:00	7.93 pH	19.31 °C	416.88 µS/cm	7.89 mg/L		16.1 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:53	01:30	7.70 pH	16.37 °C	1,030.9 µS/cm	2.96 mg/L		-117.5 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:54	02:00	7.77 pH	15.36 °C	1,051.3 µS/cm	1.04 mg/L		-132.2 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:54	02:30	7.81 pH	14.73 °C	1,065.7 µS/cm	0.48 mg/L		-138.0 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:55	03:00	7.83 pH	14.32 °C	1,069.0 µS/cm	0.31 mg/L		-140.3 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:55	03:30	7.85 pH	14.08 °C	1,073.8 µS/cm	0.24 mg/L		-142.0 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:56	04:00	7.86 pH	13.94 °C	1,074.1 µS/cm	0.20 mg/L		-142.7 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:56	04:30	7.86 pH	13.86 °C	1,074.6 µS/cm	0.18 mg/L		-142.4 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:57	05:00	7.86 pH	13.81 °C	1,075.6 µS/cm	0.16 mg/L		-142.4 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:57	05:30	7.87 pH	13.77 °C	1,076.4 µS/cm	0.15 mg/L		-142.1 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:58	06:00	7.87 pH	13.76 °C	1,076.5 µS/cm	0.14 mg/L		-141.9 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:58	06:30	7.87 pH	13.72 °C	1,077.0 µS/cm	0.12 mg/L		-142.0 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:59	07:00	7.88 pH	13.71 °C	1,077.0 µS/cm	0.11 mg/L		-142.0 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:59	07:30	7.88 pH	13.70 °C	1,077.1 µS/cm	0.10 mg/L		-142.2 mV	151.00 cm	2,000.0 ml/min
22/08/2023 15:00	08:00	7.88 pH	13.68 °C	1,077.4 µS/cm	0.10 mg/L		-142.4 mV	151.00 cm	2,000.0 ml/min

22/08/2023 15:00	08:30	7.89 pH	13.67 °C	1,076.5 µS/cm	0.09 mg/L		-142.6 mV	151.00 cm	2,000.0 ml/min
22/08/2023 15:01	09:00	7.89 pH	13.67 °C	1,077.6 µS/cm	0.08 mg/L		-142.8 mV	151.00 cm	2,000.0 ml/min
22/08/2023 15:01	09:30	7.89 pH	13.67 °C	1,076.6 µS/cm	0.07 mg/L		-142.9 mV	151.00 cm	2,000.0 ml/min
22/08/2023 15:02	10:00	7.90 pH	13.67 °C	1,076.9 µS/cm	0.07 mg/L		-142.9 mV	151.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
BH240	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/22/2023 11:24:13 AM
Project: GCRE 3
Operator Name: KW

Location Name: S2-BH242 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 2.7 m** **Top of Screen: 1 m** **Total Depth: 3.74 m** **Initial Depth to Water: 2.1 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 19000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Wet

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/22/2023 11:24 AM	00:00	8.25 pH	17.71 °C	582.25 µS/cm	1.58 mg/L		640.7 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:24 AM	00:30	8.38 pH	16.73 °C	591.36 µS/cm	0.45 mg/L		969.8 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:25 AM	01:00	8.22 pH	16.16 °C	601.94 µS/cm	0.26 mg/L		989.8 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:25 AM	01:30	8.12 pH	15.84 °C	612.95 µS/cm	0.25 mg/L		1,002.2 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:26 AM	02:00	8.08 pH	15.66 °C	619.30 µS/cm	0.24 mg/L		1,008.0 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:26 AM	02:30		15.54 °C	620.11 µS/cm	0.24 mg/L			210.00 cm	2,000.0 ml/min
8/22/2023 11:27 AM	03:00	7.98 pH	15.48 °C	616.95 µS/cm	0.22 mg/L		1,025.1 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:27 AM	03:30	7.91 pH	15.41 °C	612.17 µS/cm	0.25 mg/L		1,035.1 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:28 AM	04:00	7.76 pH	15.39 °C	607.03 µS/cm	0.16 mg/L		1,050.6 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:28 AM	04:30	7.60 pH	15.39 °C	606.77 µS/cm	0.13 mg/L		1,067.4 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:29 AM	05:00	7.49 pH	15.36 °C	605.56 µS/cm	0.11 mg/L		1,078.0 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:29 AM	05:30	7.42 pH	15.35 °C	604.65 µS/cm	0.10 mg/L		1,082.7 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:30 AM	06:00	7.43 pH	15.35 °C	603.89 µS/cm	0.09 mg/L		1,080.2 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:30 AM	06:30	7.51 pH	15.33 °C	602.09 µS/cm	0.09 mg/L		1,072.5 mV	210.00 cm	2,000.0 ml/min

8/22/2023 11:31 AM	07:00	7.42 pH	15.31 °C	599.28 µS/cm	0.11 mg/L		1,083.0 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:31 AM	07:30	7.32 pH	15.30 °C	598.46 µS/cm	0.08 mg/L		1,091.8 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:32 AM	08:00	7.27 pH	15.30 °C	597.06 µS/cm	0.07 mg/L		1,094.0 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:32 AM	08:30	7.24 pH	15.31 °C	594.39 µS/cm	0.06 mg/L		1,097.1 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:33 AM	09:00	7.21 pH	15.30 °C	593.22 µS/cm	0.06 mg/L		1,100.1 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:33 AM	09:30	7.19 pH	15.30 °C	591.69 µS/cm	0.06 mg/L		1,100.2 mV	210.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW3	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 21/08/2023 14:54:01
Project: GCRE- BH243
Operator Name:

Location Name: BH243 **Initial Depth to Water: 2.98 m**	**Estimated Total Volume Pumped: 30000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0.15 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
21/08/2023 14:54	00:00	7.95 pH	19.59 °C	880.69 µS/cm	8.10 mg/L		32.5 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:54	00:30	7.70 pH	18.56 °C	850.64 µS/cm	8.57 mg/L		29.6 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:55	01:00	7.56 pH	17.85 °C	605.84 µS/cm	6.37 mg/L		7.2 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:55	01:30	7.55 pH	16.24 °C	585.06 µS/cm	3.47 mg/L		-1.2 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:56	02:00	7.54 pH	15.16 °C	587.35 µS/cm	2.52 mg/L		3.5 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:56	02:30	7.52 pH	14.46 °C	595.50 µS/cm	2.08 mg/L		8.2 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:57	03:00	7.49 pH	13.98 °C	597.39 µS/cm	1.96 mg/L		11.7 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:57	03:30	7.48 pH	13.66 °C	598.60 µS/cm	1.95 mg/L		12.7 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:58	04:00	7.46 pH	13.44 °C	599.53 µS/cm	1.96 mg/L		13.0 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:58	04:30	7.45 pH	13.31 °C	600.39 µS/cm	1.98 mg/L		12.9 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:59	05:00	7.45 pH	13.28 °C	600.43 µS/cm	2.00 mg/L		13.4 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:59	05:30	7.44 pH	13.27 °C	600.42 µS/cm	2.01 mg/L		13.5 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:00	06:00	7.43 pH	13.29 °C	599.60 µS/cm	2.01 mg/L		13.4 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:00	06:30	7.42 pH	13.30 °C	598.19 µS/cm	1.99 mg/L		13.5 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:01	07:00	7.42 pH	13.31 °C	598.27 µS/cm	1.99 mg/L		13.4 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:01	07:30	7.42 pH	13.31 °C	597.86 µS/cm	1.99 mg/L		13.3 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:02	08:00	7.41 pH	13.31 °C	597.05 µS/cm	1.99 mg/L		13.2 mV	298.00 cm	2,000.0 ml/min

21/08/2023 15:02	08:30	7.41 pH	13.31 °C	596.85 µS/cm	1.99 mg/L		13.1 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:03	09:00	7.40 pH	13.33 °C	596.13 µS/cm	2.00 mg/L		13.6 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:03	09:30	7.40 pH	13.35 °C	595.75 µS/cm	2.00 mg/L		13.4 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:04	10:00	7.40 pH	13.38 °C	595.10 µS/cm	2.01 mg/L		13.4 mV	298.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
BH243	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2023 2:52:47 PM
Project: GCRE 3
Operator Name: KW

Location Name: S2-BH244.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 5.5 m** **Top of Screen: 4.5 m** **Total Depth: 9.25 m** **Initial Depth to Water: 2.77 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 13000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Wet

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/21/2023 2:52 PM	00:00	7.63 pH	17.59 °C	603.87 µS/cm	3.42 mg/L		1,269.9 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:53 PM	00:30	7.56 pH	16.04 °C	623.44 µS/cm	2.09 mg/L		1,273.9 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:53 PM	01:00	7.36 pH	14.88 °C	636.05 µS/cm	1.91 mg/L		1,273.9 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:54 PM	01:30	7.24 pH	14.16 °C	637.93 µS/cm	1.93 mg/L		1,243.2 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:54 PM	02:00	7.10 pH	13.72 °C	636.20 µS/cm	1.86 mg/L		1,246.3 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:55 PM	02:30	6.97 pH	13.45 °C	632.28 µS/cm	1.80 mg/L		1,247.2 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:55 PM	03:00	6.96 pH	13.30 °C	626.31 µS/cm	1.70 mg/L		1,240.3 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:56 PM	03:30	6.76 pH	13.18 °C	626.65 µS/cm	1.63 mg/L		1,247.6 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:56 PM	04:00	6.65 pH	13.13 °C	625.19 µS/cm	1.63 mg/L		1,250.6 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:57 PM	04:30	6.47 pH	13.13 °C	624.99 µS/cm	1.66 mg/L		1,258.8 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:57 PM	05:00	6.46 pH	13.16 °C	628.07 µS/cm	1.70 mg/L		1,257.1 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:58 PM	05:30	6.40 pH	13.17 °C	633.58 µS/cm	1.73 mg/L		1,259.6 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:58 PM	06:00	6.36 pH	13.15 °C	637.57 µS/cm	1.76 mg/L		1,260.6 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:59 PM	06:30	6.30 pH	13.14 °C	641.58 µS/cm	1.79 mg/L		1,264.1 mV	277.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 8/21/2023 1:51:33 PM
Project: GCRE 3
Operator Name: KW

Location Name: S2-BH246.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 4.5 m** **Top of Screen: 3.5 m** **Total Depth: 7.87 m** **Initial Depth to Water: 2.96 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 14000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Wet

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/21/2023 1:51 PM	00:00	7.45 pH	17.22 °C	434.46 µS/cm	1.60 mg/L		1,315.7 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:52 PM	00:30	7.47 pH	16.55 °C	443.07 µS/cm	1.51 mg/L		1,311.6 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:52 PM	01:00	7.45 pH	16.07 °C	446.79 µS/cm	1.49 mg/L		1,300.6 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:53 PM	01:30	7.85 pH	15.81 °C	447.92 µS/cm	1.51 mg/L		1,260.3 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:53 PM	02:00	7.54 pH	15.65 °C	446.80 µS/cm	1.58 mg/L		1,270.3 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:54 PM	02:30	7.07 pH	15.55 °C	446.09 µS/cm	1.65 mg/L		1,282.2 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:54 PM	03:00	7.07 pH	15.48 °C	446.38 µS/cm	1.68 mg/L		1,281.5 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:55 PM	03:30	6.91 pH	15.46 °C	446.55 µS/cm	1.68 mg/L		1,285.8 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:55 PM	04:00	6.87 pH	15.44 °C	446.69 µS/cm	1.65 mg/L		1,286.2 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:56 PM	04:30	6.86 pH	15.41 °C	446.31 µS/cm	1.63 mg/L		1,285.4 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:56 PM	05:00	6.80 pH	15.39 °C	445.36 µS/cm	1.61 mg/L		1,287.7 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:57 PM	05:30	6.72 pH	15.36 °C	444.93 µS/cm	1.60 mg/L		1,294.4 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:57 PM	06:00	6.72 pH	15.35 °C	444.52 µS/cm	1.59 mg/L		1,290.9 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:58 PM	06:30	6.69 pH	15.33 °C	444.41 µS/cm	1.59 mg/L		1,290.4 mV	296.00 cm	2,000.0 ml/min

8/21/2023 1:58 PM	07:00	6.66 pH	15.33 °C	444.59 µS/cm	1.59 mg/L		1,291.4 mV	296.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW3	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 25/08/2023 11:09:29
Project: GCRE-S2-BH248
Operator Name:

Location Name: BH248 **Initial Depth to Water: 6 m**	**Estimated Total Volume Pumped: 23000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0.12 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
25/08/2023 11:09	00:00	7.58 pH	15.43 °C	798.89 µS/cm	7.52 mg/L		-78.4 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:09	00:30	7.37 pH	13.96 °C	904.10 µS/cm	2.55 mg/L		-70.1 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:10	01:00	7.32 pH	13.14 °C	912.46 µS/cm	1.06 mg/L		-65.1 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:10	01:30	7.32 pH	12.62 °C	914.58 µS/cm	0.54 mg/L		-60.2 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:11	02:00	7.31 pH	12.31 °C	926.65 µS/cm	0.39 mg/L		-54.6 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:11	02:30	7.32 pH	12.14 °C	939.24 µS/cm	0.40 mg/L		-50.2 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:12	03:00	7.33 pH	12.03 °C	948.06 µS/cm	0.52 mg/L		-46.2 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:12	03:30	7.33 pH	11.98 °C	954.41 µS/cm	0.70 mg/L		-42.2 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:13	04:00	7.33 pH	11.94 °C	958.66 µS/cm	0.90 mg/L		-39.2 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:13	04:30	7.33 pH	11.93 °C	961.07 µS/cm	1.09 mg/L		-37.2 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:14	05:00	7.33 pH	11.93 °C	962.72 µS/cm	1.23 mg/L		-35.4 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:14	05:30	7.33 pH	11.94 °C	963.25 µS/cm	1.34 mg/L		-34.2 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:15	06:00	7.33 pH	11.95 °C	963.20 µS/cm	1.43 mg/L		-33.3 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:15	06:30	7.33 pH	11.96 °C	963.57 µS/cm	1.49 mg/L		-32.5 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:16	07:00	7.33 pH	11.98 °C	963.58 µS/cm	1.54 mg/L		-31.9 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:16	07:30	7.33 pH	11.98 °C	963.94 µS/cm	1.58 mg/L		-31.1 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:17	08:00	7.33 pH	11.99 °C	964.22 µS/cm	1.61 mg/L		-30.5 mV	600.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
BH248	

Low-Flow Test Report:

Test Date / Time: 21/08/2023 13:55:39
Project: GCRE- BH249
Operator Name:

Location Name: BH249 **Initial Depth to Water: 3.69 m**	**Estimated Total Volume Pumped: 25000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0.34 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
21/08/2023 13:55	00:00	7.71 pH	23.11 °C	251.88 µS/cm	4.84 mg/L		33.7 mV	369.00 cm	2,000.0 ml/min
21/08/2023 13:56	00:30	7.29 pH	18.99 °C	840.05 µS/cm	2.93 mg/L		32.2 mV	369.00 cm	
21/08/2023 13:58	03:03	7.88 pH	18.12 °C	5.72 µS/cm	8.23 mg/L		17.2 mV	369.00 cm	
21/08/2023 13:59	03:33	7.90 pH	18.29 °C	9.71 µS/cm	8.29 mg/L		1.4 mV	369.00 cm	
21/08/2023 13:59	04:03	7.34 pH	15.67 °C	874.79 µS/cm	5.11 mg/L		21.9 mV	369.00 cm	
21/08/2023 14:00	04:33	7.22 pH	14.70 °C	885.22 µS/cm	2.96 mg/L		25.6 mV	369.00 cm	
21/08/2023 14:00	05:03	7.19 pH	14.07 °C	896.25 µS/cm	2.35 mg/L		26.3 mV	369.00 cm	
21/08/2023 14:01	05:33	7.17 pH	13.67 °C	900.24 µS/cm	2.16 mg/L		26.2 mV	369.00 cm	
21/08/2023 14:01	06:03	7.16 pH	13.43 °C	900.12 µS/cm	2.10 mg/L		26.0 mV	369.00 cm	
21/08/2023 14:02	06:33	7.16 pH	13.28 °C	902.80 µS/cm	2.07 mg/L		25.6 mV	369.00 cm	
21/08/2023 14:02	07:03	7.15 pH	13.18 °C	905.12 µS/cm	2.05 mg/L		25.6 mV	369.00 cm	
21/08/2023 14:03	07:33	7.15 pH	13.13 °C	905.05 µS/cm	2.02 mg/L		25.2 mV	369.00 cm	
21/08/2023 14:03	08:03	7.15 pH	13.08 °C	903.81 µS/cm	2.00 mg/L		25.0 mV	369.00 cm	
21/08/2023 14:04	08:33	7.14 pH	13.03 °C	902.18 µS/cm	1.97 mg/L		24.8 mV	369.00 cm	
21/08/2023 14:04	09:03	7.14 pH	12.98 °C	899.41 µS/cm	1.94 mg/L		24.4 mV	369.00 cm	
21/08/2023 14:05	09:33	7.14 pH	12.94 °C	897.60 µS/cm	1.92 mg/L		23.9 mV	369.00 cm	
21/08/2023 14:05	10:03	7.13 pH	12.94 °C	896.14 µS/cm	1.90 mg/L		23.5 mV	369.00 cm	

Samples

Sample ID:	Description:
BH249	

Low-Flow Test Report:

Test Date / Time: 24/08/2023 16:00:35
Project: GCRE-S2-BH250
Operator Name:

Location Name: BH250 **Initial Depth to Water: 3.21 m**	**Estimated Total Volume Pumped: 22000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0.36 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
24/08/2023 16:00	00:00	8.02 pH	19.94 °C	970.93 µS/cm	7.86 mg/L		5.7 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:01	00:30	7.57 pH	16.97 °C	602.60 µS/cm	5.22 mg/L		18.4 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:01	01:00	7.45 pH	15.09 °C	603.21 µS/cm	3.44 mg/L		20.4 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:02	01:30	7.43 pH	13.97 °C	609.44 µS/cm	3.00 mg/L		20.2 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:02	02:00	7.44 pH	13.34 °C	614.71 µS/cm	2.90 mg/L		19.5 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:03	02:30	7.46 pH	12.97 °C	616.74 µS/cm	2.92 mg/L		18.8 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:03	03:00	7.49 pH	12.76 °C	617.15 µS/cm	3.01 mg/L		18.0 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:04	03:30	7.51 pH	12.61 °C	618.26 µS/cm	3.11 mg/L		17.6 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:04	04:00	7.53 pH	12.51 °C	619.04 µS/cm	3.17 mg/L		17.1 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:05	04:30	7.53 pH	12.46 °C	618.74 µS/cm	3.18 mg/L		16.7 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:05	05:00	7.53 pH	12.41 °C	617.41 µS/cm	3.18 mg/L		16.3 mV	321.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
BH250	

Low-Flow Test Report:

Test Date / Time: 8/22/2023 1:54:36 PM
Project: GCRE 3
Operator Name: KW

Location Name: S2-BH252 **Well Diameter: 50 cm** **Total Depth: 9 m** **Initial Depth to Water: 4.5 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 16000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Wet

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/22/2023 1:54 PM	00:00	8.00 pH	17.21 °C	426.78 µS/cm	6.03 mg/L		656.2 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:55 PM	00:30		15.69 °C	448.25 µS/cm	4.59 mg/L			450.00 cm	2,000.0 ml/min
8/22/2023 1:55 PM	01:00		14.38 °C	457.43 µS/cm	4.37 mg/L			450.00 cm	2,000.0 ml/min
8/22/2023 1:56 PM	01:30	7.48 pH	13.53 °C	461.00 µS/cm	4.37 mg/L		1,044.5 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:56 PM	02:00	7.34 pH	12.82 °C	461.24 µS/cm	4.42 mg/L		1,062.6 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:57 PM	02:30	7.22 pH	12.40 °C	455.99 µS/cm	4.49 mg/L		1,076.9 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:57 PM	03:00	7.12 pH	12.08 °C	447.14 µS/cm	4.56 mg/L		1,085.0 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:58 PM	03:30	7.05 pH	11.89 °C	434.72 µS/cm	4.64 mg/L		1,093.2 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:58 PM	04:00	6.94 pH	11.78 °C	427.21 µS/cm	4.74 mg/L		1,097.9 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:59 PM	04:30	6.82 pH	11.71 °C	428.78 µS/cm	4.80 mg/L		1,101.2 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:59 PM	05:00	6.73 pH	11.66 °C	437.60 µS/cm	4.80 mg/L		1,104.2 mV	450.00 cm	2,000.0 ml/min
8/22/2023 2:00 PM	05:30	6.70 pH	11.62 °C	446.99 µS/cm	4.76 mg/L		1,105.4 mV	450.00 cm	2,000.0 ml/min
8/22/2023 2:00 PM	06:00	6.67 pH	11.57 °C	456.06 µS/cm	4.71 mg/L		1,107.6 mV	450.00 cm	2,000.0 ml/min
8/22/2023 2:01 PM	06:30	6.63 pH	11.52 °C	461.87 µS/cm	4.63 mg/L		1,110.4 mV	450.00 cm	2,000.0 ml/min
8/22/2023 2:01 PM	07:00	6.62 pH	11.49 °C	464.00 µS/cm	4.59 mg/L		1,111.1 mV	450.00 cm	2,000.0 ml/min

8/22/2023 2:02 PM	07:30	6.58 pH	11.48 °C	462.17 µS/cm	4.55 mg/L		1,114.7 mV	450.00 cm	2,000.0 ml/min
8/22/2023 2:02 PM	08:00	6.56 pH	11.45 °C	459.07 µS/cm	4.53 mg/L		1,117.1 mV	450.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW3	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 22/08/2023 13:00:54
Project: GCRE- S2-BH261
Operator Name:

Location Name: BH261 **Initial Depth to Water: 9.56 m**	**Estimated Total Volume Pumped: 32000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0.12 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
22/08/2023 13:00	00:00	7.73 pH	20.64 °C	559.43 µS/cm	6.76 mg/L		23.3 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:01	00:30	7.64 pH	18.03 °C	501.49 µS/cm	4.75 mg/L		22.3 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:01	01:00	7.45 pH	16.84 °C	470.94 µS/cm	4.12 mg/L		24.0 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:02	01:30	7.36 pH	15.82 °C	466.61 µS/cm	3.86 mg/L		24.5 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:02	02:00	7.33 pH	15.31 °C	483.04 µS/cm	3.77 mg/L		24.2 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:03	02:30	7.27 pH	15.05 °C	458.83 µS/cm	3.84 mg/L		24.7 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:03	03:00	7.33 pH	15.21 °C	475.95 µS/cm	4.46 mg/L		23.5 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:04	03:30	7.26 pH	14.89 °C	458.08 µS/cm	4.85 mg/L		24.2 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:04	04:00	7.22 pH	14.80 °C	457.25 µS/cm	4.75 mg/L		24.7 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:05	04:30	7.23 pH	14.73 °C	472.98 µS/cm	4.69 mg/L		24.2 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:05	05:00	7.21 pH	14.67 °C	458.58 µS/cm	4.67 mg/L		24.3 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:06	05:30	7.19 pH	14.66 °C	457.73 µS/cm	4.64 mg/L		24.4 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:06	06:00	7.18 pH	14.63 °C	457.56 µS/cm	4.59 mg/L		24.3 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:07	06:30	7.18 pH	14.62 °C	457.40 µS/cm	4.56 mg/L		24.5 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:07	07:00	7.17 pH	14.61 °C	457.56 µS/cm	4.50 mg/L		24.3 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:08	07:30	7.17 pH	14.61 °C	457.36 µS/cm	4.41 mg/L		24.2 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:08	08:00	7.16 pH	14.61 °C	457.04 µS/cm	4.33 mg/L		24.1 mV	956.00 cm	2,000.0 ml/min

22/08/2023 13:09	08:30	7.16 pH	14.61 °C	454.49 µS/cm	4.26 mg/L		23.8 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:09	09:00	7.16 pH	14.61 °C	456.54 µS/cm	4.20 mg/L		23.9 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:10	09:30	7.16 pH	14.60 °C	456.38 µS/cm	4.12 mg/L		23.8 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:10	10:00	7.16 pH	14.60 °C	456.65 µS/cm	4.07 mg/L		23.6 mV	956.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
BH261	

Created using VuSitu from In-Situ, Inc.

Appendix IV

Geoenvironmental Testing

Eurofins Chemtest

23-21883, 23-22078, 23-22244, 23-22484, 23-23194, 23-23250, 23-25140, 23-25140, 23-25292, 23-25489, 23-25593, 23-25755, 23-26215, 23-26298, 23-28320, 23-28452, 23-29018, 23-29077, 23-29496, 23-29817

eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

UKAS TESTING
2183

Final Report

Report No.:	23-21883-1
Initial Date of Issue:	04-Jul-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt
Project	G23012C GCRE Montoring
Quotation No.:	Q22-29781
Date Received:	28-Jun-2023
Order No.:	
Date Instructed:	28-Jun-2023
No. of Samples:	2
Turnaround (Wkdays):	5
Results Due:	04-Jul-2023
Date Approved:	04-Jul-2023
Approved By:	



Details:	Stuart Henderson, Technical Manager

Results - Water

Project: G23012C GCRE Montoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-21883	23-21883
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1665337	1665338
Order No.:			Client Sample Ref.:		14	11
			Client Sample ID.:		#2340287618490014	#5560009314460011
			Sample Location:		S2-BH244	S2-BH246
			Sample Type:		WATER	WATER
			Top Depth (m):		9.38	7.87
			Date Sampled:		26-Jun-2023	26-Jun-2023
			Time Sampled:		15:12	14:12
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
pH	U	1010		N/A	6.5	6.8
Sulphate	U	1220	mg/l	1.0	260	100
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	52	59
Total Hardness as CaCO3	U	1270	mg/l	15	310	290
Arsenic (Dissolved)	U	1455	µg/l	0.20	< 0.20	< 0.20
Boron (Dissolved)	U	1455	µg/l	10.0	17	16
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50	36
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	10000	59
Nickel (Dissolved)	U	1455	µg/l	0.50	42	1.8
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	0.62	1.0
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	9.5	10
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	0.91	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10

Results - Water

Project: G23012C GCRE Montoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-21883	23-21883
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1665337	1665338
Order No.:			Client Sample Ref.:		14	11
			Client Sample ID.:		#2340287618490014	#5560009314460011
			Sample Location:		S2-BH244	S2-BH246
			Sample Type:		WATER	WATER
			Top Depth (m):		9.38	7.87
			Date Sampled:		26-Jun-2023	26-Jun-2023
			Time Sampled:		15:12	14:12
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-22078-1
Initial Date of Issue:	04-Jul-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt
Project	GCRE Montoring
Quotation No.:	Q22-29781
Order No.:	G230012C
No. of Samples:	7
Turnaround (Wkdays):	5
Date Approved:	04-Jul-2023
Approved By:	
Details:	Stuart Henderson, Technical Manager

Date Received:	29-Jun-2023
Date Instructed:	29-Jun-2023
Results Due:	05-Jul-2023

Results - Water

Project: GCRE Montoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-22078	23-22078	23-22078	23-22078	23-22078	23-22078	23-22078
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1666133	1666134	1666135	1666136	1666137	1666138	1666139
Order No.: G230012C			Client Sample Ref.:		12	11	11	15	13	14	18
			Client Sample ID.:		#66261311790 90012	#66261311790 90011	#06312021895 40011	#70721805594 10015	#55116547576 60013	#19508717776 90014	#48124953288 50018
			Sample Location:		S2-BH239	S2-BH239	S2-BH240	S2-BH242	S2-BH243	S2-BH249	S2-BH252
			Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER	WATER
			Top Depth (m):		3.60	7.60	5.16	3.74	5.88	7.65	8.63
			Date Sampled:		27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023
			Time Sampled:		10:22	9:45	10:50	11:13	9:04	9:23	14:41
Determinand	**Accred.**	**SOP**	**Units**	**LOD**							
pH	U	1010		N/A	7.7	7.7	8.1	7.9	7.4	7.1	7.3
Sulphate	U	1220	mg/l	1.0	120	120	110	70	110	420	37
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	76	75	75	68	40	96	42
Total Hardness as CaCO3	U	1270	mg/l	15	340	320	290	290	240	550	210
Arsenic (Dissolved)	U	1455	µg/l	0.20	1.4	0.51	2.0	0.43	< 0.20	< 0.20	< 0.20
Boron (Dissolved)	U	1455	µg/l	10.0	130	120	93	74	38	32	32
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11	0.20	< 0.11	0.55	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	2.4	0.94	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	10	< 0.50	< 0.50	2.6	0.81	2.7	1.1
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	450	420	470	3300	2900	9800	110
Nickel (Dissolved)	U	1455	µg/l	0.50	8.0	6.1	3.5	14	6.7	26	5.3
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.3
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	43	8.0	2.6	15	12	21	11
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	< 2.0	< 2.0	< 2.0	2.7	< 2.0	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: GCRE Montoring

Client: Jackson Geo Services					**Chemtest Job No.:**	23-22078	23-22078	23-22078	23-22078	23-22078	23-22078
Quotation No.: Q22-29781					**Chemtest Sample ID.:**	1666133	1666134	1666135	1666136	1666137	1666138	1666139
Order No.: G230012C					Client Sample Ref.:	12	11	11	15	13	14	18
					Client Sample ID.:	#6626131179090012	#6626131179090011	#0631202189540011	#7072180559410015	#5511654757660013	#1950871777690014	#4812495328850018
					Sample Location:	S2-BH239	S2-BH239	S2-BH240	S2-BH242	S2-BH243	S2-BH249	S2-BH252
					Sample Type:	WATER	WATER	WATER	WATER	WATER	WATER	WATER
					Top Depth (m):	3.60	7.60	5.16	3.74	5.88	7.65	8.63
					Date Sampled:	27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023
					Time Sampled:	10:22	9:45	10:50	11:13	9:04	9:23	14:41
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
Total Of 16 PAH's	U	1800	µg/l	2.0		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030		< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
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I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

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Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
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Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-22244-1
Initial Date of Issue:	06-Jul-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt
Project	G23012C, GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	2
Turnaround (Wkdays):	5
Date Approved:	06-Jul-2023
Approved By:	

Date Received:	30-Jun-2023
Date Instructed:	30-Jun-2023
Results Due:	06-Jul-2023



Details: Stuart Henderson, Technical Manager

Results - Water

Project: G23012C, GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-22244	23-22244
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1666732	1666733
Order No.:			Client Sample Ref.:		1	1
			Client Sample ID.:		#19517118027 10001	#81604485577 60001
			Sample Location:		S2-BH248	S2-BH250
			Sample Type:		WATER	WATER
			Date Sampled:		28-Jun-2023	28-Jun-2023
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
pH	U	1010		N/A	6.9	7.2
Sulphate	U	1220	mg/l	1.0	220	73
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	93	42
Total Hardness as CaCO3	U	1270	mg/l	15	560	230
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.63	0.29
Boron (Dissolved)	U	1455	µg/l	10.0	48	33
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	230	2.0
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	2700	15
Nickel (Dissolved)	U	1455	µg/l	0.50	13	2.0
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	1.4	2.0
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	110	2.5
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	4.5	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

U	UKAS accredited
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T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

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Uncertainty of measurement for the determinands tested are available upon request
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All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-22244-1
Initial Date of Issue:	06-Jul-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt
Project	G23012C, GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	2
Turnaround (Wkdays):	5
Date Approved:	06-Jul-2023
Approved By:	

Date Received:	30-Jun-2023
Date Instructed:	30-Jun-2023
Results Due:	06-Jul-2023



Details: Stuart Henderson, Technical Manager

Results - Water

Project: G23012C, GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-22244	23-22244
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1666732	1666733
Order No.:			Client Sample Ref.:		1	1
			Client Sample ID.:		#19517118027 10001	#81604485577 60001
			Sample Location:		S2-BH248	S2-BH250
			Sample Type:		WATER	WATER
			Date Sampled:		28-Jun-2023	28-Jun-2023
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
pH	U	1010		N/A	6.9	7.2
Sulphate	U	1220	mg/l	1.0	220	73
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	93	42
Total Hardness as CaCO3	U	1270	mg/l	15	560	230
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.63	0.29
Boron (Dissolved)	U	1455	µg/l	10.0	48	33
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	230	2.0
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	2700	15
Nickel (Dissolved)	U	1455	µg/l	0.50	13	2.0
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	1.4	2.0
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	110	2.5
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	4.5	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

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The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

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Sample Deviation Codes

A - Date of sampling not supplied
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Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
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If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

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eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-23194-1
Initial Date of Issue:	14-Jul-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Montoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	1
Turnaround (Wkdays):	5
Date Approved:	14-Jul-2023
Approved By:	

Date Received:	07-Jul-2023
Date Instructed:	07-Jul-2023
Results Due:	13-Jul-2023



Details: Stuart Henderson, Technical Manager

Results - Water

Project: G23012C GCRE Montoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-23194
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1671236
Order No.:			Client Sample Ref.:		1
			Client Sample ID.:		#4796955480600001
			Sample Location:		S2-BH225
			Sample Type:		WATER
			Top Depth (m):		5.89
			Date Sampled:		06-Jul-2023
			Time Sampled:		13:00
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
pH	U	1010		N/A	7.4
Sulphate	U	1220	mg/l	1.0	23
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	18
Total Hardness as CaCO3	U	1270	mg/l	15	79
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.29
Boron (Dissolved)	U	1455	µg/l	10.0	16
Cadmium (Dissolved)	U	1455	µg/l	0.11	0.19
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	9900
Nickel (Dissolved)	U	1455	µg/l	0.50	6.6
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	6.3
Chromium (Hexavalent)	U	1490	µg/l	20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10

Results - Water

Project: G23012C GCRE Montoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-23194
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1671236
Order No.:			Client Sample Ref.:		1
			Client Sample ID.:		#4796955480600001
			Sample Location:		S2-BH225
			Sample Type:		WATER
			Top Depth (m):		5.89
			Date Sampled:		06-Jul-2023
			Time Sampled:		13:00
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

UKAS TESTING
2183

Final Report

Report No.:	23-23250-1
Initial Date of Issue:	14-Jul-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	1
Turnaround (Wkdays):	5
Date Approved:	14-Jul-2023
Approved By:	

Date Received:	10-Jul-2023
Date Instructed:	10-Jul-2023
Results Due:	14-Jul-2023



Details: Stuart Henderson, Technical Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-23250
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1671563
Order No.:			Client Sample Ref.:		1
			Client Sample ID.:		#19108113375 90001
			Sample Location:		S2-BH217
			Sample Type:		WATER
			Top Depth (m):		29.55
			Date Sampled:		06-Jul-2023
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
pH	U	1010		N/A	7.7
Sulphate	U	1220	mg/l	1.0	30
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	68
Total Hardness as CaCO3	U	1270	mg/l	15	220
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.47
Boron (Dissolved)	U	1455	µg/l	10.0	69
Cadmium (Dissolved)	U	1455	µg/l	0.11	0.81
Chromium (Dissolved)	U	1455	µg/l	0.50	0.55
Copper (Dissolved)	U	1455	µg/l	0.50	0.75
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	3800
Nickel (Dissolved)	U	1455	µg/l	0.50	3.1
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	1.5
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	3.8
Chromium (Hexavalent)	U	1490	µg/l	20	[B] < 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-23250
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1671563
Order No.:			Client Sample Ref.:		1
			Client Sample ID.:		#19108113375 90001
			Sample Location:		S2-BH217
			Sample Type:		WATER
			Top Depth (m):		29.55
			Date Sampled:		06-Jul-2023
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
Total Phenols	U	1920	mg/l	0.030	< 0.030

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request.The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1671563	1	#1910811337590001	S2-BH217	06-Jul-2023	B	Coloured Winchester 1000ml
1671563	1	#1910811337590001	S2-BH217	06-Jul-2023	B	EPA Vial 40ml
1671563	1	#1910811337590001	S2-BH217	06-Jul-2023	B	Plastic Bottle 1000ml

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

2183

eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-25140-1
Initial Date of Issue:	01-Aug-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	3
Turnaround (Wkdays):	5
Date Approved:	01-Aug-2023
Approved By:	

Date Received:	26-Jul-2023
Date Instructed:	26-Jul-2023
Results Due:	01-Aug-2023



Details: Stuart Henderson, Technical Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-25140	23-25140	23-25140
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1679297	1679298	1679299
Order No.:			Client Sample Ref.:		2	2	15
			Client Sample ID.:		#8813621550230002	#0348998811250002	#2862882368660002
			Sample Location:		S2-BH244	S2-BH246	S2-BH249
			Sample Type:		WATER	WATER	WATER
			Top Depth (m):		9.25	7.86	7.70
			Date Sampled:		24-Jul-2023	24-Jul-2023	24-Jul-2023
			Time Sampled:		11:56	14:43	15:01
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
pH	U	1010		N/A	7.7	7.5	7.5
Sulphate	U	1220	mg/l	1.0	130	160	250
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	59	74	96
Total Hardness as CaCO3	U	1270	mg/l	15	320	380	480
Arsenic (Dissolved)	U	1455	µg/l	0.20	< 0.20	0.21	< 0.20
Boron (Dissolved)	U	1455	µg/l	10.0	24	32	30
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11	0.17
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	1.1	0.78	0.59
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	1500	34	120
Nickel (Dissolved)	U	1455	µg/l	0.50	7.2	2.2	3.9
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	3.3	5.9	5.7
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	16	21	25
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	3.5	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-25140	23-25140	23-25140
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1679297	1679298	1679299
Order No.:			Client Sample Ref.:		2	2	15
			Client Sample ID.:		#8813621550230002	#0348998811250002	#2862882368660002
			Sample Location:		S2-BH244	S2-BH246	S2-BH249
			Sample Type:		WATER	WATER	WATER
			Top Depth (m):		9.25	7.86	7.70
			Date Sampled:		24-Jul-2023	24-Jul-2023	24-Jul-2023
			Time Sampled:		11:56	14:43	15:01
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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customerservices@chemtest.com

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-25292-1
Initial Date of Issue:	02-Aug-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	8
Turnaround (Wkdays):	5
Date Approved:	02-Aug-2023
Approved By:	

Date Received:	27-Jul-2023
Date Instructed:	27-Jul-2023
Results Due:	02-Aug-2023



Details: Stuart Henderson, Technical Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-25292	23-25292	23-25292	23-25292	23-25292	23-25292	23-25292	23-25292
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1679912	1679913	1679914	1679915	1679916	1679917	1679918	1679919
Order No.:			Client Sample Ref.:		EW	EW	EW	EW	EW	EW	EW	EW
			Client Sample ID.:		4	3	2	2	2	2	2	1
			Sample Location:		S2-BH239	S2-BH239	S2-BH240	S2-BH242	S2-BH243	S2-BH248	S2-BH252	S2-BH261
			Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
			Top Depth (m):		3.70	7.80	5.38	3.79	5.93	9.26	8.87	7.70
			Date Sampled:		25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023
			Time Sampled:		12:38	12:08	10:04	10:44	9:41	15:11	12:40	16:41
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
pH	U	1010		N/A	7.3	7.4	7.7	7.3	7.2	6.9	7.2	7.1
Sulphate	U	1220	mg/l	1.0	320	310	410	74	100	150	43	130
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	110	110	150	56	61	54	35	38
Total Hardness as CaCO3	U	1270	mg/l	15	530	550	600	250	260	380	170	190
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.55	0.71	0.70	0.34	< 0.20	0.44	0.23	< 0.20
Boron (Dissolved)	U	1455	µg/l	10.0	150	140	150	140	68	65	54	52
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11	0.29	< 0.11	< 0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	2.9	0.81	0.55	1.8	2.1
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	150	210	1300	4200	780	5300	39	3.6
Nickel (Dissolved)	U	1455	µg/l	0.50	18	19	25	30	4.0	17	2.7	4.2
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	1.3	1.3	< 0.50	0.85	3.2	< 0.50	1.9	5.8
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	5.8	7.7	15	13	12	14	10	16
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	2.3	< 2.0	2.1	4.9	2.5	2.3	2.2	2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-25292	23-25292	23-25292	23-25292	23-25292	23-25292	23-25292	23-25292
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1679912	1679913	1679914	1679915	1679916	1679917	1679918	1679919
Order No.:			Client Sample Ref.:		EW	EW	EW	EW	EW	EW	EW	EW
			Client Sample ID.:		4	3	2	2	2	2	2	1
			Sample Location:		S2-BH239	S2-BH239	S2-BH240	S2-BH242	S2-BH243	S2-BH248	S2-BH252	S2-BH261
			Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
			Top Depth (m):		3.70	7.80	5.38	3.79	5.93	9.26	8.87	7.70
			Date Sampled:		25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023
			Time Sampled:		12:38	12:08	10:04	10:44	9:41	15:11	12:40	16:41
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
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I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
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Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

UKAS TESTING
2183

eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-25489-1
Initial Date of Issue:	03-Aug-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	4
Turnaround (Wkdays):	5
Date Approved:	03-Aug-2023
Approved By:	

Date Received:	28-Jul-2023
Date Instructed:	28-Jul-2023
Results Due:	03-Aug-2023



Details: Stuart Henderson, Technical Manager

Results - Water

Project: G23012C

Client: Jackson Geo Services			**Chemtest Job No.:**		23-25489	23-25489	23-25489	23-25489
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1680564	1680565	1680566	1680567
Order No.:			Client Sample Ref.:		2	2	2	2
			Client Sample ID.:		#0692623695680002	#0512072751530002	#8894485281250002	#7355426455540002
			Sample Location:		S2-BH227	S2-BH237	S2-BH250	S2-BH261
			Sample Type:		WATER	WATER	WATER	WATER
			Top Depth (m):		14.50	25.50	9.30	14.08
			Date Sampled:		26-Jul-2023	26-Jul-2023	26-Jul-2023	26-Jul-2023
			Time Sampled:		12:18	15:02	10:48	11:27
Determinand	**Accred.**	**SOP**	**Units**	**LOD**				
pH	U	1010		N/A	7.9	5.0	8.1	8.2
Sulphate	U	1220	mg/l	1.0	6.7	170	72	140
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	17	30	64	38
Total Hardness as CaCO3	U	1270	mg/l	15	120	180	310	190
Arsenic (Dissolved)	U	1455	µg/l	0.20	< 0.20	0.34	< 0.20	0.20
Boron (Dissolved)	U	1455	µg/l	10.0	25	22	33	24
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	0.34	< 0.11	0.15
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50	4.5	< 0.50	1.4
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	3200	3300	29	3200
Nickel (Dissolved)	U	1455	µg/l	0.50	5.1	75	3.1	20
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	3.6	5.6
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	16	180	7.6	24
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	< 2.0	3.3	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: G23012C

Client: Jackson Geo Services			**Chemtest Job No.:**		23-25489	23-25489	23-25489	23-25489
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1680564	1680565	1680566	1680567
Order No.:			Client Sample Ref.:		2	2	2	2
			Client Sample ID.:		#0692623695680002	#0512072751530002	#8894485281250002	#7355426455540002
			Sample Location:		S2-BH227	S2-BH237	S2-BH250	S2-BH261
			Sample Type:		WATER	WATER	WATER	WATER
			Top Depth (m):		14.50	25.50	9.30	14.08
			Date Sampled:		26-Jul-2023	26-Jul-2023	26-Jul-2023	26-Jul-2023
			Time Sampled:		12:18	15:02	10:48	11:27
Determinand	**Accred.**	**SOP**	**Units**	**LOD**				
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

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<	"less than"
>	"greater than"
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The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-25593-1
Initial Date of Issue:	03-Aug-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	4
Turnaround (Wkdays):	5
Date Approved:	03-Aug-2023
Approved By:	

Date Received:	31-Jul-2023
Date Instructed:	31-Jul-2023
Results Due:	04-Aug-2023



Details: Stuart Henderson, Technical Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-25593	23-25593	23-25593	23-25593
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1680972	1680973	1680974	1680975
			Client Sample ID.:		2	4	3	2
			Sample Location:		S1-BH118	S1-BH119	S1-BH119	S1-BH120
			Sample Type:		WATER	WATER	WATER	WATER
			Top Depth (m):		14.97	4.00	15.00	20.54
			Date Sampled:		27-Jul-2023	27-Jul-2023	27-Jul-2023	27-Jul-2023
			Time Sampled:		11:06	11:38	11:07	15:20
Determinand	**Accred.**	**SOP**	**Units**	**LOD**				
pH	U	1010		N/A	7.8	7.3	7.7	7.7
Sulphate	U	1220	mg/l	1.0	26	130	13	1.7
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	51	24	32	22
Total Hardness as CaCO3	U	1270	mg/l	15	180	190	150	110
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.53	0.53	0.48	0.22
Boron (Dissolved)	U	1455	µg/l	10.0	20	23	46	37
Cadmium (Dissolved)	U	1455	µg/l	0.11	0.29	0.17	0.13	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	1.5	1.1	0.56	< 0.50
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	3200	8000	590	710
Nickel (Dissolved)	U	1455	µg/l	0.50	17	53	16	1.8
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	1.1	1.2	1.2	0.78
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	14	28	14	5.6
Chromium (Hexavalent)	U	1490	µg/l	20	[B] < 20	[B] < 20	[B] < 20	[B] < 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	3.2	2.5	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request.The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1680972		2	S1-BH118	27-Jul-2023	B	Coloured Winchester 1000ml
1680972		2	S1-BH118	27-Jul-2023	B	EPA Vial 40ml
1680972		2	S1-BH118	27-Jul-2023	B	Plastic Bottle 1000ml
1680973		4	S1-BH119	27-Jul-2023	B	Coloured Winchester 1000ml
1680973		4	S1-BH119	27-Jul-2023	B	EPA Vial 40ml
1680973		4	S1-BH119	27-Jul-2023	B	Plastic Bottle 1000ml
1680974		3	S1-BH119	27-Jul-2023	B	Coloured Winchester 1000ml
1680974		3	S1-BH119	27-Jul-2023	B	EPA Vial 40ml
1680974		3	S1-BH119	27-Jul-2023	B	Plastic Bottle 1000ml
1680975		2	S1-BH120	27-Jul-2023	B	Coloured Winchester 1000ml
1680975		2	S1-BH120	27-Jul-2023	B	EPA Vial 40ml
1680975		2	S1-BH120	27-Jul-2023	B	Plastic Bottle 1000ml

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
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1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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LOD	Limit of detection

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All water samples will be retained for 14 days from the date of receipt
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Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-25755-1
Initial Date of Issue:	08-Aug-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	2
Turnaround (Wkdays):	5
Date Approved:	08-Aug-2023
Approved By:	

Date Received:	01-Aug-2023
Date Instructed:	02-Aug-2023
Results Due:	08-Aug-2023



Details: Stuart Henderson, Technical Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-25755	23-25755
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1681850	1681851
Order No.:			Client Sample Ref.:		EW	EW
			Client Sample ID.:		2	3
			Sample Location:		S2-BH217	S2-BH227
			Sample Type:		WATER	WATER
			Top Depth (m):		29.96	5.00
			Date Sampled:		28-Jul-2023	28-Jul-2023
			Time Sampled:		11:09	12:50
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
pH	U	1010		N/A	7.3	7.2
Sulphate	U	1220	mg/l	1.0	30	45
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	67	26
Total Hardness as CaCO3	U	1270	mg/l	15	220	130
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.54	0.44
Boron (Dissolved)	U	1455	µg/l	10.0	41	13
Cadmium (Dissolved)	U	1455	µg/l	0.11	2.5	0.19
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50	4.6
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	3700	830
Nickel (Dissolved)	U	1455	µg/l	0.50	2.4	4.6
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	0.80
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	< 2.5	33
Chromium (Hexavalent)	U	1490	µg/l	20	[B] < 20	[B] < 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	2.3	3.8
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-25755	23-25755
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1681850	1681851
Order No.:			Client Sample Ref.:		EW	EW
			Client Sample ID.:		2	3
			Sample Location:		S2-BH217	S2-BH227
			Sample Type:		WATER	WATER
			Top Depth (m):		29.96	5.00
			Date Sampled:		28-Jul-2023	28-Jul-2023
			Time Sampled:		11:09	12:50
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request.The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1681850	EW	2	S2-BH217	28-Jul-2023	B	Coloured Winchester 1000ml
1681850	EW	2	S2-BH217	28-Jul-2023	B	EPA Vial 40ml
1681850	EW	2	S2-BH217	28-Jul-2023	B	Plastic Bottle 1000ml
1681851	EW	3	S2-BH227	28-Jul-2023	B	Coloured Winchester 1000ml
1681851	EW	3	S2-BH227	28-Jul-2023	B	EPA Vial 40ml

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

U	UKAS accredited
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S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

UKAS TESTING
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Final Report

Report No.:	23-26215-1
Initial Date of Issue:	08-Aug-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	2
Turnaround (Wkdays):	5
Date Approved:	08-Aug-2023
Approved By:	
Details:	Stuart Henderson, Technical Manager

Date Received:	03-Aug-2023
Date Instructed:	04-Aug-2023
Results Due:	10-Aug-2023

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-26215	23-26215
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1683492	1683493
Order No.:			Client Sample Ref.:		EW	EW
			Client Sample ID.:		1	2
			Sample Location:		S2-BH222	S2-BH232
			Sample Type:		WATER	WATER
			Top Depth (m):		24.71	6.95
			Date Sampled:		01-Aug-2023	01-Aug-2023
			Time Sampled:		14:50	13:18
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
pH	U	1010		N/A	7.9	7.3
Sulphate	U	1220	mg/l	1.0	30	4.4
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	23	17
Total Hardness as CaCO3	U	1270	mg/l	15	120	130
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.68	0.31
Boron (Dissolved)	U	1455	µg/l	10.0	39	25
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	5.3	< 0.50
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	240	2400
Nickel (Dissolved)	U	1455	µg/l	0.50	12	7.3
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	25	22
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	6.9	3.6
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-26215	23-26215
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1683492	1683493
Order No.:			Client Sample Ref.:		EW	EW
			Client Sample ID.:		1	2
			Sample Location:		S2-BH222	S2-BH232
			Sample Type:		WATER	WATER
			Top Depth (m):		24.71	6.95
			Date Sampled:		01-Aug-2023	01-Aug-2023
			Time Sampled:		14:50	13:18
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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All water samples will be retained for 14 days from the date of receipt
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customerservices@chemtest.com

eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

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Amended Report

Report No.:	23-26298-4		
Initial Date of Issue:	10-Aug-2023	**Date of Re-Issue:**	10-Aug-2023
Re-Issue Details:	This report has been revised and directly supersedes 23-26298-3 in its entirety		
Client	Jackson Geo Services		
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA		
Contact(s):	Adam Putt James Power		
Project	G23012C GCRE Monitoring		
Quotation No.:	Q22-29781	**Date Received:**	04-Aug-2023
Order No.:		**Date Instructed:**	04-Aug-2023
No. of Samples:	2		
Turnaround (Wkdays):	5	**Results Due:**	10-Aug-2023
Date Approved:	10-Aug-2023		
Approved By:			
Details:	Stuart Henderson, Technical Manager		

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services		**Chemtest Job No.:**			23-26298	23-26298
Quotation No.: Q22-29781		**Chemtest Sample ID.:**			1683770	1683771
Order No.:		Client Sample Ref.:			EW	EW
		Client Sample ID.:			2	1
		Sample Location:			S2-BH225	S2-BH229
		Sample Type:			WATER	WATER
		Top Depth (m):			5.93	14.83
		Date Sampled:			02-Aug-2023	02-Aug-2023
		Time Sampled:			14:12	12:54
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
pH	U	1010		N/A	7.7	7.3
Sulphate	U	1220	mg/l	1.0	9.7	58
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	17	95
Total Hardness as CaCO3	U	1270	mg/l	15	73	410
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.33	0.62
Boron (Dissolved)	U	1455	µg/l	10.0	14	20
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50	2.3
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	8100	440
Nickel (Dissolved)	U	1455	µg/l	0.50	6.2	4.2
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	0.72
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	31	47
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	2.1	2.9
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
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1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-28320-1
Initial Date of Issue:	30-Aug-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Montoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	4
Turnaround (Wkdays):	5
Date Approved:	30-Aug-2023
Approved By:	
Details:	Stuart Henderson, Technical Manager

Date Received:	23-Aug-2023
Date Instructed:	23-Aug-2023
Results Due:	30-Aug-2023

Results - Water

Project: G23012C GCRE Montoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-28320	23-28320	23-28320	23-28320
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1692450	1692451	1692452	1692453
Order No.:			Client Sample Ref.:		3	2	3	3
			Client Sample ID.:		#3427982154960003	#4673518666370002	#7412367266320003	#1736393739340003
			Sample Location:		S2-BH243	S2-BH244	S2-BH246	S2-BH249
			Sample Type:		WATER	WATER	WATER	WATER
			Top Depth (m):		2.98	9.44	8.01	3.69
			Bottom Depth (m):		5.86			7.49
			Date Sampled:		21-Aug-2023	21-Aug-2023	21-Aug-2023	21-Aug-2023
			Time Sampled:		15:11	15:09	14:11	14:10
Determinand	**Accred.**	**SOP**	**Units**	**LOD**				
pH	U	1010		N/A	8.2	7.8	7.9	7.6
Sulphate	U	1220	mg/l	1.0	86	120	56	250
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	64	53	47	91
Total Hardness as CaCO3	U	1270	mg/l	15	280	300	200	470
Arsenic (Dissolved)	U	1455	µg/l	0.20	< 0.20	< 0.20	< 0.20	< 0.20
Boron (Dissolved)	U	1455	µg/l	10.0	34	26	21	30
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	140	340	27	63
Nickel (Dissolved)	U	1455	µg/l	0.50	1.8	2.4	< 0.50	2.1
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	4.4	2.4	1.8	3.5
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	5.0	3.5	5.9	13
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	2.3	2.4	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: G23012C GCRE Montoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-28320	23-28320	23-28320	23-28320
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1692450	1692451	1692452	1692453
Order No.:			Client Sample Ref.:		3	2	3	3
			Client Sample ID.:		#3427982154960003	#4673518666370002	#7412367266320003	#1736393739340003
			Sample Location:		S2-BH243	S2-BH244	S2-BH246	S2-BH249
			Sample Type:		WATER	WATER	WATER	WATER
			Top Depth (m):		2.98	9.44	8.01	3.69
			Bottom Depth (m):		5.86			7.49
			Date Sampled:		21-Aug-2023	21-Aug-2023	21-Aug-2023	21-Aug-2023
			Time Sampled:		15:11	15:09	14:11	14:10
Determinand	**Accred.**	**SOP**	**Units**	**LOD**				
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

U	UKAS accredited
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N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

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Uncertainty of measurement for the determinands tested are available upon request
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The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

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A - Date of sampling not supplied
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D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

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Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-28452-1
Initial Date of Issue:	31-Aug-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	6
Turnaround (Wkdays):	5
Date Approved:	31-Aug-2023
Approved By:	

Date Received:	24-Aug-2023
Date Instructed:	24-Aug-2023
Results Due:	31-Aug-2023



Details: Stuart Henderson, Technical Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-28452	23-28452	23-28452	23-28452	23-28452	23-28452
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1692991	1692992	1692993	1692994	1692995	1692996
			Client Sample ID.:		3	3	3	6	3	5
			Sample Location:		S2-BH242	S2-BH252	S2-BH261	S2-BH239	S2-BH240	S2-BH239
			Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER
			Top Depth (m):		3.77	9.00	14.81	1.92	1.51	1.37
			Date Sampled:		22-Aug-2023	22-Aug-2023	22-Aug-2023	22-Aug-2023	22-Aug-2023	22-Aug-2023
Determinand	**Accred.**	**SOP**	**Units**	**LOD**						
pH	U	1010		N/A	8.5	8.5	8.3	8.2	8.3	8.3
Sulphate	U	1220	mg/l	1.0	80	38	110	230	270	220
Cyanide (Total)	U	1300	mg/l	0.050	0.060	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	49	43	37	83	110	83
Total Hardness as CaCO3	U	1270	mg/l	15	220	200	180	440	450	430
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.56	< 0.20	< 0.20	< 0.20	0.32	0.22
Boron (Dissolved)	U	1455	µg/l	10.0	64	< 10	< 10	58	81	60
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50	1.1	1.3	< 0.50	< 0.50	< 0.50
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	2800	100	5.9	280	940	300
Nickel (Dissolved)	U	1455	µg/l	0.50	20	0.85	1.9	13	2.6	13
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	1.2	3.4	< 0.50	< 0.50	0.74
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	6.9	3.9	< 2.5	8.1	2.8	5.1
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20	< 20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	3.2	2.2	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	23-29018-2		
Initial Date of Issue:	06-Sep-2023	**Date of Re-Issue:**	07-Sep-2023
Re-Issue Details:	This report has been revised and directly supersedes 23-29018-1 in its entirety		
Client	Jackson Geo Services		
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA		
Contact(s):	Adam Putt James Power		
Project	G23012C GCRE Monitoring		
Quotation No.:	Q22-29781	**Date Received:**	30-Aug-2023
Order No.:		**Date Instructed:**	30-Aug-2023
No. of Samples:	3		
Turnaround (Wkdays):	6	**Results Due:**	06-Sep-2023
Date Approved:	06-Sep-2023		
Approved By:			
Details:	Stuart Henderson, Technical Manager		

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-29018	23-29018	23-29018
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1695280	1695281	1695282
			Client Sample ID.:		#75500818427 0003	#91728581437 60003	#67617184327 60003
			Sample Location:		S2-BH237	S2-BH248	S2-BH250
			Sample Type:		WATER	WATER	WATER
			Top Depth (m):		25.27	6.80	3.21
			Bottom Depth (m):			8.95	8.97
			Date Sampled:		25-Aug-2023	25-Aug-2023	24-Aug-2023
			Time Sampled:		14:14	11:21	
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
pH	U	1010		N/A	7.6	7.3	8.5
Sulphate	U	1220	mg/l	1.0	74	150	73
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	13	72	57
Total Hardness as CaCO3	U	1270	mg/l	15	82	470	290
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.61	< 0.20	< 0.20
Boron (Dissolved)	U	1455	µg/l	10.0	19	44	36
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	0.59	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	8.5	0.75	0.52
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	1300	3400	160
Nickel (Dissolved)	U	1455	µg/l	0.50	22	12	2.3
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	0.71	2.2
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	69	4.7	< 2.5
Chromium (Hexavalent)	U	1490	µg/l	20	[B] < 20	[B] < 20	[B] < 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	6.7	2.3	< 2.0
Naphthalene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Acenaphthylene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Acenaphthene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Fluorene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Phenanthrene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Anthracene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Fluoranthene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Pyrene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Chrysene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-29018	23-29018	23-29018
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1695280	1695281	1695282
			Client Sample ID.:		#75500818427 0003	#91728581437 60003	#67617184327 60003
			Sample Location:		S2-BH237	S2-BH248	S2-BH250
			Sample Type:		WATER	WATER	WATER
			Top Depth (m):		25.27	6.80	3.21
			Bottom Depth (m):			8.95	8.97
			Date Sampled:		25-Aug-2023	25-Aug-2023	24-Aug-2023
			Time Sampled:		14:14	11:21	
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
Total Of 16 PAH's	U	1800	µg/l	2.0	[C] < 2.0	< 2.0	[C] < 2.0
Total Phenols	U	1920	mg/l	0.030	[C] < 0.030	< 0.030	[C] < 0.030

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request.The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1695280		#755008184270003	S2-BH237	25-Aug-2023	BC	EPA Vial 40ml
1695280		#755008184270003	S2-BH237	25-Aug-2023	BC	Plastic Bottle 1000ml
1695281		#9172858143760003	S2-BH248	25-Aug-2023	B	Coloured Winchester 1000ml
1695281		#9172858143760003	S2-BH248	25-Aug-2023	B	EPA Vial 40ml
1695282		#6761718432760003	S2-BH250	24-Aug-2023	BC	EPA Vial 40ml
1695282		#6761718432760003	S2-BH250	24-Aug-2023	BC	Plastic Bottle 1000ml

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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All results are expressed on a dry weight basis

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A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-29077-1
Initial Date of Issue:	07-Sep-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	3
Turnaround (Wkdays):	5
Date Approved:	07-Sep-2023
Approved By:	

Date Received:	31-Aug-2023
Date Instructed:	01-Sep-2023
Results Due:	07-Sep-2023



Details: Stuart Henderson, Technical Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-29077	23-29077	23-29077
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1695482	1695483	1695484
Order No.:			Client Sample Ref.:		3	5	3
			Sample Location:		S1-BH118	S1-BH119	S1-BH120
			Sample Type:		WATER	WATER	WATER
			Date Sampled:		29-Aug-2023	29-Aug-2023	29-Aug-2023
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
pH	U	1010		N/A	7.0	7.2	7.4
Sulphate	U	1220	mg/l	1.0	39	16	1.1
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	43	30	23
Total Hardness as CaCO3	U	1270	mg/l	15	160	140	110
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.35	0.66	0.60
Boron (Dissolved)	U	1455	µg/l	10.0	110	97	70
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	1.7	< 0.50	< 0.50
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	2500	450	680
Nickel (Dissolved)	U	1455	µg/l	0.50	16	8.9	6.4
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	0.56	0.52	< 0.50
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	15	6.1	4.9
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	3.7	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

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None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

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Final Report

Report No.:	23-29496-1
Initial Date of Issue:	08-Sep-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	1
Turnaround (Wkdays):	5
Date Approved:	08-Sep-2023
Approved By:	
Details:	Stuart Henderson, Technical Manager

Date Received:	04-Sep-2023
Date Instructed:	04-Sep-2023
Results Due:	08-Sep-2023

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-29496
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1697137
			Client Sample ID.:		#25346559251 30002
			Sample Location:		S2-BH229
			Sample Type:		WATER
			Top Depth (m):		14.20
			Date Sampled:		31-Aug-2023
			Time Sampled:		13:19
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
pH	U	1010		N/A	8.0
Sulphate	U	1220	mg/l	1.0	54
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	85
Total Hardness as CaCO3	U	1270	mg/l	15	380
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.25
Boron (Dissolved)	U	1455	µg/l	10.0	43
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	1.4
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	0.63
Nickel (Dissolved)	U	1455	µg/l	0.50	14
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50
Vanadium (Dissolved)	U	1455	µg/l	0.50	0.61
Zinc (Dissolved)	U	1455	µg/l	2.5	< 2.5
Chromium (Hexavalent)	U	1490	µg/l	20	[B] < 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-29496
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1697137
			Client Sample ID.:		#25346559251 30002
			Sample Location:		S2-BH229
			Sample Type:		WATER
			Top Depth (m):		14.20
			Date Sampled:		31-Aug-2023
			Time Sampled:		13:19
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
Total Phenols	U	1920	mg/l	0.030	< 0.030

Deviations

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Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1697137		#2534655925130002	S2-BH229	31-Aug-2023	B	Coloured Winchester 1000ml
1697137		#2534655925130002	S2-BH229	31-Aug-2023	B	EPA Vial 40ml
1697137		#2534655925130002	S2-BH229	31-Aug-2023	B	Plastic Bottle 1000ml

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
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1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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Email: info@chemtest.com

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Final Report

Report No.:	23-29817-1
Initial Date of Issue:	12-Sep-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	1
Turnaround (Wkdays):	5
Date Approved:	12-Sep-2023
Approved By:	
Details:	Stuart Henderson, Technical Manager

Date Received:	06-Sep-2023
Date Instructed:	06-Sep-2023
Results Due:	12-Sep-2023

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-29817
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1698465
Order No.:			Client Sample Ref.:		3
			Client Sample ID.:		#73541636845 70003
			Sample Location:		S2-BH217
			Sample Type:		WATER
			Top Depth (m):		16.42
			Date Sampled:		04-Sep-2023
			Time Sampled:		14:28
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
pH	U	1010		N/A	7.9
Sulphate	U	1220	mg/l	1.0	150
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	61
Total Hardness as CaCO3	U	1270	mg/l	15	350
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.38
Boron (Dissolved)	U	1455	µg/l	10.0	46
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	0.93
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	290
Nickel (Dissolved)	U	1455	µg/l	0.50	3.1
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	4.1
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	15
Chromium (Hexavalent)	U	1490	µg/l	20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-29817
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1698465
Order No.:			Client Sample Ref.:		3
			Client Sample ID.:		#73541636845 70003
			Sample Location:		S2-BH217
			Sample Type:		WATER
			Top Depth (m):		16.42
			Date Sampled:		04-Sep-2023
			Time Sampled:		14:28
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Global Centre of Rail Excellence (GCRE)

Stage 2 Ground Investigation

Monitoring Addendum Report

G23012C

September 2023

GCRE Limited

Global Centre of Rail Excellence
Onllwyn
Neath Port Talbot
SA10 9HN

Unit B3
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Llantrisant
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CF72 8QZ

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JACKSON GEO SERVICES

Report Control Sheet

Report Number

G23012C

Date of Issue

September 2023

Site Address

GCRE, Onllwyn, Neath Port Talbot, SA10 9HN

Report Preparation

Revision	Writer	Approver
Rev 0	James Power BSc (Hons) FGS	Adam Putt BSc (Hons) FGS CGeol CSci EurGeol MIEnvSc Registered Ground Engineering Professional
	Signature 	Signature 
Rev 1		
	Signature	Signature

Jackson Geo Services is a trading name of Jackson Drilling Holdings Limited – registered company number 06919550.

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1 Introduction

1.1 General

GCRE entered into a contract with Jackson Geo Services (JGS) to complete a ground investigation at the Global Centre of Rail Excellence (GCRE) site (hereafter referred to as The Site). The contract was agreed during March 2023. As per the Construction Design and Management (CDM) Regulations (2015), parties were attributed the following responsibilities:

Table 1: Responsibility Under CDM

Client	GCRE Limited
Designer	Atkins (SNC-Lavalin)
Principal Contractor	Walters UK Limited
Sub-Contractor	Jackson Geo Services (JGS)

1.2 Proposed Development

The site is proposed to be developed as a new rail testing and training centre, with the proposed development comprising a rail testing, storage and maintenance facility. The works associated to this phase of investigation comprise the monitoring and sampling of boreholes installed by JGS during the Stage 2 Ground Investigation. Details of this investigation are presented within JGS factual report number G23012 Rev1 (dated September 2023).

1.3 Scope of Works

The scope of investigation was defined by Atkins and is detailed within a series of documents referenced as follows:

- GCRE001-AWJV-EW-XX-SP-GE-00001 3.0 (dated November 2022)
- GCRE001-AWJV-EW-XX-SP-GE-00004 4.0 (dated December 2022)
- GCRE001-AWJV-EW-XX-SP-GE-00001 2.0 (dated May 2023)

The documents, when read in conjunction with one another, comprise the full project specification and are hereafter referred to as The Specification within this document.

In summary, the scope of investigation comprised:

- Well Development
- Ground Gas Monitoring
- Ground Water Monitoring
- Water Purging and Sampling
- In-situ Testing
- Geoenvironmental Testing
- Factual Reporting
- Production of Digital Data in AGS 4 format

1.4 Limitations

The project has been undertaken in accordance with The Specification and current standards and guidance as applicable (see References).

This report presents the observations made during desk-based studies and the fieldwork period on a factual basis. Any observations within the report are limited to those which can be made based upon the information available at the time.

JGS consider the contents of the report have been produced accurately and the data presented is representative of the site conditions at the time. JGS assumes any third-party data included in the report is accurate and correct. No responsibility is accepted by JGS for inaccuracies within third party data.

This report has been written to The Specification and is for use only in this context by the named Client and their advisers and is confidential to the named Client.

This report presents information on ground conditions, including groundwater, gas and contamination concentrations and soil properties, which are based upon the available dataset for the investigation. This dataset is considered representative of the site as whole, however is limited by the locations of investigation. Ground conditions, in particular Made Ground, can vary substantially and JGS do not accept responsibility for local unforeseen changes. Furthermore, groundwater, gas concentrations and chemical concentrations can vary with time, atmospheric conditions and spatially dependent upon a variety of confining factors.

Consideration should be made as to the relevance of the information if the dataset is to be utilised after a significant period of time has elapsed from the date of investigation.

2 The Site and Anticipated Ground Conditions

A description of the site, its location and the anticipated ground conditions are presented within JGS factual report number G23012 Rev1 (dated September 2023).

3 Fieldwork

3.1 General Information

The fieldwork was completed over the course of three visits between 26 July and 4 September 2023, with the well development taking place on an ad-hoc basis during the main phase of ground investigation works (27 March to 16 June 2023). Records of the well development are presented within Appendix I.

The ground investigation was undertaken in accordance with BS5930:2015+A1:2020. The works were supervised by a trained and competent JGS engineer.

3.2 Exploratory Holes

The details of the exploratory holes monitored, including the location ID, construction method, termination depth and installation detail, are listed within Table 2.

Table 2: Exploratory Hole Details

Exploratory Hole ID	Construction Method	Termination Depth (m)	Installation Details		
			Type	Diameter (mm)	Response Zone (m bgl)
S1-BH118	IP+DS+RO+RC	30.70	SP	50	8.00 – 15.00
S1-BH119	RO+DS+RC	31.50	SP SP	50 50	2.00 – 4.00 8.00 – 15.00
S1-BH120	IP+DS+RO+RC	30.00	SP	50	12.00 – 20.00
S2-BH204	IP+RO+RC	33.00	SP	50	21.00 – 32.00
S2-BH207	IP+RO+RC	40.00	SP	50	36.00 – 40.00
S2-BH208	IP+RO+RC	40.50	SP	50	32.50 – 40.50
S2-BH210	IP+RO+RC	40.00	SP	50	30.00 – 40.00
S2-BH214	IP+RO+RC	40.00	SP	50	20.00 – 30.00
S2-BH217	RO+RC	40.50	Packer installed at 34.50m. SP SP	 50 19	 2.00 – 6.00 25.00 – 30.00
S2-BH219	IP+RO+RC	39.00	SP SP	50 50	2.00 – 4.00 5.00 – 9.00
S2-BH220	IP+RO+RC	40.00	SP SP	19 50	1.00 – 30.50 31.00 – 39.00
S2-BH221	IP+SNC	10.00	SP	50	4.00 – 10.00
S2-BH222	SNC+RC	25.00	SP SP	50 50	2.00 – 4.00 15.00 – 25.00
S2-BH223	SNC	10.00	SP	50	4.00 – 10.00
S2-BH224	IP+SNC	10.00	SP	50	2.00 – 10.00
S2-BH225	IP+DS+RO+RC	25.60	SP	50	3.00 – 6.90
S2-BH226	SNC	10.00	SP	50	4.00 – 6.00
S2-BH227	IP+DS+RC	20.80	SP SP	19 50	1.00 – 5.50 8.00 – 14.00
S2-BH228	IP+SNC	40.00	SP	50	2.00 – 40.00
S2-BH229	IP+RO+RC	15.00	SP SP	50 50	2.00 – 3.00 8.00 – 14.00
S2-BH230	IP+SNC	28.00	SP	50	2.00 – 28.00
S2-BH231	SNC	25.00	SP	50	2.00 – 25.00
S2-BH232	IP+DS+RC	25.50	SP	50	1.00 – 7.00
S2-BH233	IP+DS+RC	25.00	SP	50	1.00 – 25.00
S2-BH235	IP+DS+RC	15.00	SP	50	8.00 – 15.00
S2-BH236	IP+DS+RO+RC	15.00	SP	50	10.00 – 15.00
S2-BH237	IP+DS+RC	24.80	SP	50	2.00 – 24.80
S2-BH239	IP+DS+RC	10.00	SP SP	50 50	1.00 – 3.60 7.00 – 10.00
S2-BH240	IP+DS+RC	6.50	SP	50	1.00 – 6.00
S2-BH241	IP+DS+RO+RC	15.00	SP	50	10.00 – 15.00
S2-BH242	IP+DS+RC	10.00	SP	50	1.00 – 3.70
S2-BH243	DS+RC	10.00	SP	50	5.00 – 6.00
S2-BH244	IP+DS+RC	10.00	SP SP	50 50	1.00 – 3.50 4.50 – 10.00
S2-BH245	IP+DS+RC	10.00	SP	50	1.50 – 4.00
S2-BH246	IP+DS+RC	10.00	SP SP	50 50	1.00 – 2.80 3.50 – 8.00
S2-BH247	DS+RC	10.50	SP SP	50 50	1.00 – 2.00 6.00 – 9.00
S2-BH248	IP+DS+RC	10.00	SP SP	50 50	1.00 – 4.00 6.50 – 9.50
S2-BH249	IP+DS+RC	10.00	SP SP	19 50	1.00 – 2.80 3.50 – 8.00
S2-BH250	IP+DS+RC	10.00	SP SP	50 50	1.00 – 2.00 7.50 – 9.50
S2-BH252	IP+DS+RC	10.00	SP SP	50 50	1.00 – 2.60 6.00 – 9.00

S2-BH261	IP+RO+RC	25.00	SP SP	50 50	3.00 – 8.00 10.00 – 15.00

Notes: DS – Dynamic Sampling, IP – Inspection Pit, RC- Rotary Coring, RO – Rotary Open Holing, SNC – Sonic Drilling, TP – Trial Pit, WLS – Dynamic Windowless Sampling, SP – Standpipe piezometer

3.3 Monitoring and Sampling

Monitoring of the groundwater and ground gas was undertaken by JGS in accordance with The Specification and relevant technical standards. Three monitoring visits were undertaken; these visits comprised monitoring groundwater and ground gas levels from within the installations. The monitoring was completed between; 26 June to 7 July, 24 July to 02 August and 21 August to 4 September 2023. Records of the groundwater and gas levels recorded during monitoring are presented within Appendix II along with associated calibration certificates for the equipment used. Continuous supplementary barometric and temperature data was collected throughout the duration of the monitoring period and is presented within Appendix II.

During the second monitoring visit undertaken between 24 July to 02 August 2023 inclement weather and poor surface conditions on site meant that access to several boreholes was not possible with a conventional 4x4 vehicle. Walters UK Ltd hired in an agricultural 4x4 (Kawasaki Mule) to facilitate access. The affected boreholes are listed below:

- S2-BH221
- S2-BH222
- S2-BH223
- S2-BH225
- S2-BH232

During the third monitoring visit undertaken between 21 August to 04 September 2023 the following boreholes were not visited due to deteriorating surface ground conditions on site making access to the locations unsafe:

- S2-BH225
- S2-BH232

Samples of the groundwater were obtained from the installations post fieldwork in accordance with The Specification and the requirements of BS10175+A1 (2011). The samples were obtained using low flow techniques. The samples were obtained during the monitoring visits listed above. Records of the purge and sampling sheets and in-situ parameters recorded during purging and sampling are presented within Appendix III.

Where groundwater was encountered within 19 mm diameter standpipes, samples were obtained using a low flow inertial pump with a Waterra PP1 (power pack). The installations where this method was utilised were:

- S2-BH217 (install 1) on all three visits
- S2-BH227 (install 1) on the second visit

Where groundwater was unable to be sampled using the downhole impellor pump and flow controller within 50 mm diameter standpipes, an attempt was made to obtain a sample using a low flow inertial pump and a Waterra PP1. This methodology was attempted at the following location:

- S2-BH223 on the first monitoring visit

Sampling using this methodology was unsuccessful.

Where groundwater was unable to be sampled using the downhole impellor pump and flow controller within 50 mm diameter standpipes, and in the case of location S2-BH223 where low flow inertial pump and a Waterra PP1 had previously failed, an attempt was made to obtain a sample using a high flow inertial pump and a Waterra PP1. This methodology was attempted at the following locations:

- S2-BH204 on the third monitoring visit.
- S2-BH208 on the third monitoring visit.
- S2-BH223 on the second and third monitoring visit.
- S2-BH231 on the third monitoring visit.
- S2-BH236 on the third monitoring visit.

Sampling using this methodology was unsuccessful.

3.4 Geoenvironmental Testing

Laboratory testing for geoenvironmental purposes was completed at Eurofins Chemtest, UKAS registration number 2183. The testing requirements were specified by Atkins and the testing has been completed in accordance with The Specification and relevant technical standards. The geoenvironmental testing was completed on 12 September 2023. The testing in summarised within Table 3 and the results are presented within Appendix IV.

Table 3: Geoenvironmental Testing Summary

Test Type	Number of Tests
Suite G – Water	63

4 References

- AGS. Electronic Transfer of Geotechnical and Geoenvironmental Data (Edition 4.1.1). Association of Geotechnical and Geoenvironmental Specialists. (2022)
- BS 5930:2015+A1. Code of practice for ground investigations. British Standards Institution. (2020)
- BS 10175:2011+A2. Investigation of potentially contaminated sites. Code of practice. (2017)
- BS EN 1997-2. Eurocode 7. Geotechnical design. Part 2 Ground investigation and testing. British Standards Institution. (2007, incorporating corrigendum June 2010)
- BS EN ISO 22282-1:2012. Geotechnical investigation and testing. Geohydraulic testing. Part 1 General rules (2012)
- BS EN ISO 22475-1. Geotechnical investigation and testing. Sampling methods and groundwater measurements. Part 1Technical principles for the sampling of soil, rock and groundwater. British Standards Institution. (2021)
- G23012. Global Centre of Rail Excellence (GCRE) Stage 2 Ground Investigation. Factual Report Rev1. Jackson Geo Services. (2023)

Appendix I

Fieldwork Monitoring

Groundwater Monitoring Well Development Records	Fieldwork Groundwater Data S1-BH118, S1-BH119 (1 and 2), S1-BH120, S2-BH204, S2-BH207, S2-BH208, S2-BH210, S2-BH214, S2-BH217 (1 and 2), S2-BH219 (1 and 2), S2-BH220 (1), S2-BH225, S2-BH226, S2-BH227 (1 and 2), S2-BH229 (1 and 2), S2-BH232, S2-BH233, S2-BH236, S2-BH237, S2-BH239 (1 and 2), S2-BH240, S2-BH241, S2-BH242, S2-BH243 (1 and 2), S2-BH244 (1 and 2), S2-BH245, S2-BH246 (1 and 2), S2-BH247 (1 and 2), S2-BH248 (1 and 2), S2-BH250 (1 and 2), S2-BH252 (1 and 2), S2-BH261 (1 and 2)

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S1-BH118	1	50	15.00	24/05/2023 14:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	8.00	15.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	15.30	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	7.55	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	4.9
Time to Purge (mins)	8	Number of Well Volumes Purged	1.1
Total Volume Purged (litres)	39.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Fairly turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Light brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	7.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	22.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	7.45
Volume of the Standpipe (litres) (πdp2/4)*10-3	14.6

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**36.6**

Additional Notes and Observations

No in situ parameters required during well development. Well purged until dry.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S1-BH119	1	50	15.00	24/05/2023 12:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	8.00	15.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	15.00	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	2.20	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	6.0
Time to Purge (mins)	25	Number of Well Volumes Purged	3.2
Total Volume Purged (litres)	150.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Highly Turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Grey

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	7.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	22.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	12.80
Volume of the Standpipe (litres) (πdp2/4)*10-3	25.1

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**47.1**

Additional Notes and Observations

No in situ parameters required during well development.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S1-BH119	2	50	4.00	24/05/2023 12:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	4.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	4.10	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	2.07	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	6.0
Time to Purge (mins)	2	Number of Well Volumes Purged	1.0
Total Volume Purged (litres)	12.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Highly Turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Grey

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.93
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	140
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	8.5

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.93
Volume of the Standpipe (litres) (πdp2/4)*10-3	3.8

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**12.3**

Additional Notes and Observations

No in situ parameters required during well development. Well purged dry.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S1-BH120	1	50	20.00	30/05/2023 12:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	12.00	20.00	Sunny and windy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	20.10	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	9.95	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp pump	Average Flow Rate (litres/min)	6.5
Time to Purge (mins)	26	Number of Well Volumes Purged	3.0
Total Volume Purged (litres)	168.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Fairly turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Light brown running clear.

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	8.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	140
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	35.4

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	10.05
Volume of the Standpipe (litres) (πdp2/4)*10-3	19.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**55.2**

Additional Notes and Observations

No in situ parameters required for well development.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH204	1	50	32.00	23/05/2023 14:45
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	21.00	32.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	30.00	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	28.12	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	3.2
Time to Purge (mins)	13	Number of Well Volumes Purged	2.1
Total Volume Purged (litres)	42.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	Earthy odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Highly turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Greyish brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.88
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	12.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	3.88
Volume of the Standpipe (litres) (πdp2/4)*10-3	7.6

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**19.6**

Additional Notes and Observations

No in situ parameters required for during development. Well purged until dry.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH207	1	50	40.00	17/05/2023 10:40
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	36.00	40.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	41.10	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Additional Notes and Observations

Borehole dipped dry.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH208	1	50	40.50	24/05/2023 10:45
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	32.50	40.50	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	40.00	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Additional Notes and Observations

Well dipped Dry, no purging required.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH210	1	50	40.00	24/05/2023 10:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Steel Cover	Pipe Plug	30.00	40.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	40.00	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Additional Notes and Observations

Well dipped dry. No purging required.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH214	1	50	30.00	05/06/2023 13:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	20.00	30.00	Sunny breezy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	30.00	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	29.30	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	1.5
Time to Purge (mins)	2	Number of Well Volumes Purged	0.8
Total Volume Purged (litres)	3.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Fairly turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.70
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	2.2

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.70
Volume of the Standpipe (litres) (πdp2/4)*10-3	1.4

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**3.6**

Additional Notes and Observations

No in situ parameters required for well development. Well purged until dry.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH217	1	19	30.00	05/06/2023 11:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	25.00	30.00	Sunny Windy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	29.90	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	19
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Additional Notes and Observations

Well dipped dry, unable to purge.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH217	2	50	6.00	05/06/2023 11:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	6.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	6.20	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	4.70	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	4.0
Time to Purge (mins)	5	Number of Well Volumes Purged	3.0
Total Volume Purged (litres)	20.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Highly Turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Light brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.30
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	4.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.30
Volume of the Standpipe (litres) (πdp2/4)*10-3	2.6

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**6.6**

Additional Notes and Observations

No in situ parameters required for well development.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH219	1	50	4.00	05/06/2023 10:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	4.00	Sunny Windy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	4.00	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Additional Notes and Observations

Well dipped dry. Unable to purge.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH219	2	50	9.00	05/06/2023 10:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	5.00	9.00	Sunny Windy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.00	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	7.40	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	4.2
Time to Purge (mins)	6	Number of Well Volumes Purged	3.1
Total Volume Purged (litres)	25.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Highly Turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Light Brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.60
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	4.9

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.60
Volume of the Standpipe (litres) (πdp2/4)*10-3	3.1

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**8.1**

Additional Notes and Observations

No in situ parameters required for well development.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH220	1	50	39.00	17/05/2023 10:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	31.00	39.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	40.00	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	168
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Additional Notes and Observations

Borehole dipped dry.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH225	1	50	6.90	25/05/2023 12:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	3.00	6.90	Sunny with wind

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	6.90	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	6.80	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	1	Number of Well Volumes Purged	3.9
Total Volume Purged (litres)	2.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Fairly turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Greyish brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.10
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.3

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.10
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.2

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.5**

Additional Notes and Observations

No in situ parameters required for well development. Well purged until dry

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH226	1	50	10.00	02/06/2023 12:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cover	4.00	10.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.80	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	6.90	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	5.4
Time to Purge (mins)	7	Number of Well Volumes Purged	3.1
Total Volume Purged (litres)	38.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Fairly turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Light brown running cloudy then clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.10
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	101
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	6.2

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	3.10
Volume of the Standpipe (litres) (πdp2/4)*10-3	6.1

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**12.3**

Additional Notes and Observations

No in situ parameters required for well development.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH227	1	19	5.50	25/05/2023 10:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	5.50	Sunny with wind

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	5.40	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	5.40	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.10
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	178
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.8

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	19
Saturated depth (m) (sd) (installation base - groundwater level)	0.10
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.8**

Additional Notes and Observations

Well damp at base, no purging carried out.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH227	2	50	14.00	25/05/2023 10:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	8.00	14.00	Sunny and breezy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.40	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	11.20	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	4.3
Time to Purge (mins)	3	Number of Well Volumes Purged	0.5
Total Volume Purged (litres)	13.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Fairly turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Light yellowish brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	2.80
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	178
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	21.2

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	2.80
Volume of the Standpipe (litres) (πdp2/4)*10-3	5.5

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**26.7**

Additional Notes and Observations

No in situ parameters required for well development. Well purged until dry.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH229	1	50	14.00	25/05/2023 11:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	8.00	14.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.00	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	12.60	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp pump	Average Flow Rate (litres/min)	2.7
Time to Purge (mins)	2	Number of Well Volumes Purged	0.6
Total Volume Purged (litres)	4.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Fairly Turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Light brown running cloudy grey

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.40
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	4.3

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.40
Volume of the Standpipe (litres) (πdp2/4)*10-3	2.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**7.1**

Additional Notes and Observations

No in situ parameters required for well development. Well purged until dry.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH229	2	50	3.00	25/05/2023 11:15
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	3.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	2.90	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Additional Notes and Observations

Well dipped dry. No purging required.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH232	1	50	7.00	30/05/2023 10:30
Cover Type	**Pipe Cover**	**Top of Response Zone (m bgl)**	**Base of Response Zone (m bgl)**	**Weather**
0	Pipe Plug	1.00	7.00	Sunny with Wind

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	7.20	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	4.55	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	3.8
Time to Purge (mins)	4	Number of Well Volumes Purged	1.2
Total Volume Purged (litres)	15.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Highly turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Yellowish brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	2.45
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	122
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	7.9

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	2.45
Volume of the Standpipe (litres) (πdp2/4)*10-3	4.8

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**12.7**

Additional Notes and Observations

No in situ parameters required for well development. Well purged until dry.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH233	1	50	25.00	01/06/2023 13:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	25.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	25.10	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	22.33	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	9.4
Time to Purge (mins)	7	Number of Well Volumes Purged	2.9
Total Volume Purged (litres)	66.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Fairly turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Light brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	2.67
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	168
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	17.8

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	2.67
Volume of the Standpipe (litres) (πdp2/4)*10-3	5.2

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**23.0**

Additional Notes and Observations

No in situ parameters required for well development. Well purged until dry.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH236	1	50	15.00	23/05/2023 10:45
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	10.00	15.00	Overcast

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	15.00	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	13.91	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	6	Number of Well Volumes Purged	3.1
Total Volume Purged (litres)	12.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Fairly Turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Light brown running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.09
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	92
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	1.7

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.09
Volume of the Standpipe (litres) (πdp2/4)*10-3	2.1

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**3.8**

Additional Notes and Observations

No in situ parameters required during well development.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH237	1	50	24.80	01/06/2023 11:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	24.80	Sunny Windy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	25.00	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	11.90	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	9.3
Time to Purge (mins)	22	Number of Well Volumes Purged	2.2
Total Volume Purged (litres)	204.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Highly turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Greyish brown running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	12.90
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	66.8

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	12.90
Volume of the Standpipe (litres) (πdp2/4)*10-3	25.3

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**92.2**

Additional Notes and Observations

No in situ parameters required for well development. Well purged until dry.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH239	1	50	3.60	15/05/2023 10:56
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	3.60	Sunny and windy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	4.60	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	1.40	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	6.9
Time to Purge (mins)	7	Number of Well Volumes Purged	3.1
Total Volume Purged (litres)	48.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Highly turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Light greyish brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	2.20
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	11.4

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	2.20
Volume of the Standpipe (litres) (πdp2/4)*10-3	4.3

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**15.7**

Additional Notes and Observations

No in situ parameters required during well development.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH239	2	0	10.00	15/05/2023 11:17
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	7.00	10.00	Sunny and windy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	7.60	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	1.16	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	6.8
Time to Purge (mins)	14.5	Number of Well Volumes Purged	3.0
Total Volume Purged (litres)	99.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Highly Turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Light grey

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	15.5

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	8.84
Volume of the Standpipe (litres) (πdp2/4)*10-3	17.3

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**32.9**

Additional Notes and Observations

No in situ parameters required during well development.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH240	1	50	6.00	11/05/2023 14:23
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	6.00	Raining

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	5.10	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	1.60	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	7.4
Time to Purge (mins)	21	Number of Well Volumes Purged	3.0
Total Volume Purged (litres)	156.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No
In-situ Parameter Device SN	N/A	Visual Turbidity	No
Confirm Field Calibration Completed	N/A	Groundwater Colour	Grey running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	4.40
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	42.7

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	4.40
Volume of the Standpipe (litres) (πdp2/4)*10-3	8.6

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**51.4**

Additional Notes and Observations

No in situ parameters required during well development.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH241	1	50	15.00	17/05/2023 11:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	10.00	15.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	15.15	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	14.50	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.8
Time to Purge (mins)	2	Number of Well Volumes Purged	3.1
Total Volume Purged (litres)	5.5	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Not turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	light brown running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.50
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	92
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.8

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.50
Volume of the Standpipe (litres) (πdp2/4)*10-3	1.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**1.8**

Additional Notes and Observations

No in situ parameters required during well development.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH242	1	50	3.70	10/05/2023 14:45
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	3.70	Rain Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.70	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	2.10	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	1.3
Time to Purge (mins)	2	Number of Well Volumes Purged	0.2
Total Volume Purged (litres)	2.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Fairly turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.60
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	8.3

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.60
Volume of the Standpipe (litres) (πdp2/4)*10-3	3.1

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**11.4**

Additional Notes and Observations

No in situ parameters required during well development.
Borehole purged dry.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH243	1	50	6.00	12/05/2023 13:45
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	3.00	Sunny and windy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	5.80	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	3.20	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	5.7
Time to Purge (mins)	7	Number of Well Volumes Purged	3.1
Total Volume Purged (litres)	40.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Highly Turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Greyush brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	2.80
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	112
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	7.3

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	2.80
Volume of the Standpipe (litres) (πdp2/4)*10-3	5.5

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**12.8**

Additional Notes and Observations

No in situ parameters required during well development.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH243	2	0	3.00	12/05/2023 14:04
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	3.00	Sunny and windy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	2.9	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	112
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Additional Notes and Observations

Borehole dipped dry.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH244	1	50	4.50	10/05/2023 12:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	3.50	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.50	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	146
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Additional Notes and Observations

Well dipped dry.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH244	2	50	10.00	10/05/2023 11:24
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	4.50	10.00	Rain Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.34	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	2.90	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	6.2
Time to Purge (mins)	16	Number of Well Volumes Purged	1.4
Total Volume Purged (litres)	96.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	Stagnant smell
In-situ Parameter Device SN	N/A	Visual Turbidity	Highly turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Brown running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	5.50
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	53.4

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	7.10
Volume of the Standpipe (litres) (πdp2/4)*10-3	13.9

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**67.4**

Additional Notes and Observations

No in situ parameters required during well development.
Borehole purged dry.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH245	1	50	4.00	10/05/2023 15:15
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.50	4.00	Rain Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.85	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	2.93	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	1.3
Time to Purge (mins)	2	Number of Well Volumes Purged	0.3
Total Volume Purged (litres)	2.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Fairly turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.07
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	5.5

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.07
Volume of the Standpipe (litres) (πdp2/4)*10-3	2.1

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**7.6**

Additional Notes and Observations

No in situ parameters required during well development.
Borehole purged dry.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH246	1	19	2.80	15/05/2023 13:57
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	2.80	Cloudy and windy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	2.40	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	19
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Additional Notes and Observations

Well dipped dry, no purging required.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH246	2	50	8.00	10/05/2023 10:36
Cover Type	**Pipe Cover**	**Top of Response Zone (m bgl)**	**Base of Response Zone (m bgl)**	**Weather**
Box Cover	Pipe Plug	3.50	8.00	Rain Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	7.80	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	3.10	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	7.0
Time to Purge (mins)	16	Number of Well Volumes Purged	3.3
Total Volume Purged (litres)	108.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Fairly turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Greyish brown running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	4.50
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	23.3

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	4.90
Volume of the Standpipe (litres) (πdp2/4)*10-3	9.6

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**32.9**

Additional Notes and Observations

No in situ parameters required during well development.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH247	1	50	9.00	16/05/2023 11:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	6.00	9.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	8.90	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Additional Notes and Observations

Borehole dipped dry.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH247	2	0	2.00	16/05/2023 11:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	2.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	1.70	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	0
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Additional Notes and Observations

Borehole dipped dry.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH248	1	50	9.50	11/05/2023 13:14
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	6.50	9.50	Rain Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.10	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	6.10	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	0.8
Time to Purge (mins)	6	Number of Well Volumes Purged	0.2
Total Volume Purged (litres)	5.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Fairly Turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Grey

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	15.5

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	3.40
Volume of the Standpipe (litres) (πdp2/4)*10-3	6.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**22.2**

Additional Notes and Observations

No in situ parameters required for well development.
Borehole purged until dry.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH248	2	50	4.00	11/05/2023 13:55
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	4.00	Rain Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.95	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	N/A
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Additional Notes and Observations

Borehole dipped dry.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH249	2	50	8.00	10/05/2023 13:29
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	3.50	8.00	Rain Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	7.20	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	3.75	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	6.8
Time to Purge (mins)	23	Number of Well Volumes Purged	3.1
Total Volume Purged (litres)	156.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Highly turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	4.25
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	41.3

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	4.25
Volume of the Standpipe (litres) (πdp2/4)*10-3	8.3

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**49.6**

Additional Notes and Observations

No in situ parameters required during well development.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH250	1	50	9.50	11/05/2023 11:09
Cover Type	**Pipe Cover**	**Top of Response Zone (m bgl)**	**Base of Response Zone (m bgl)**	**Weather**
Box Cover	Pipe Plug	7.50	9.50	Sunny

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	8.80	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	3.40	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	1.6
Time to Purge (mins)	12	Number of Well Volumes Purged	0.8
Total Volume Purged (litres)	18.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Fairly Turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Dark Brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	2.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	10.4

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	6.10
Volume of the Standpipe (litres) (πdp2/4)*10-3	12.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**22.3**

Additional Notes and Observations

No in situ parameters required during well development.
Borehole purged until dry.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH250	2	50	2.00	11/05/2023 11:35
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	2.00	Sunny

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	2.10	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	N/A
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Additional Notes and Observations

Borehole dipped dry.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH252	1	50	2.60	01/06/2023 14:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	2.60	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	2.60	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	146
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Additional Notes and Observations

Well dipped dry. Unable to purge.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH252	2	50	9.00	10/05/2023 15:31
Cover Type	**Pipe Cover**	**Top of Response Zone (m bgl)**	**Base of Response Zone (m bgl)**	**Weather**
Box Cover	Pipe Plug	6.00	9.00	Rain Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.00	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	5.10	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	4.8
Time to Purge (mins)	10	Number of Well Volumes Purged	3.1
Total Volume Purged (litres)	48.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Highly Turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Dark Grey

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	112
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	7.8

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	3.90
Volume of the Standpipe (litres) (πdp2/4)*10-3	7.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**15.5**

Additional Notes and Observations

No in situ parameters required during well development.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH261	1	50	15.00	16/05/2023 15:16
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	10.00	15.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	15.00	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	12.00	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	6.0
Time to Purge (mins)	8	Number of Well Volumes Purged	3.1
Total Volume Purged (litres)	48.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	No odour
In-situ Parameter Device SN	N/A	Visual Turbidity	Highly turbid
Confirm Field Calibration Completed	N/A	Groundwater Colour	Greyish brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	9.4

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	3.00
Volume of the Standpipe (litres) (πdp2/4)*10-3	5.9

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**15.3**

Additional Notes and Observations

No in situ parameters required during well development.

INSTALLATION INSPECTION AND WELL DEVELOPMENT RECORD

Project	Global Centre of Rail Excellence Stage II	Project No	G23012	Client	Walters UK Ltd

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH261	2	0	8.00	16/05/2023 16:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	3.00	8.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	7.80	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Well Development

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Well Development

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	0	Number of Well Volumes Purged	
Total Volume Purged (litres)	0.0	Operative	KW

Observations During Well Development (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	0
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Additional Notes and Observations

Borehole dipped dry.

Appendix II

Monitoring

Gas Monitor Calibration Certificates	Certificate Number: G508511_2/32102 G508511_1/33397 G504748_2/32981
Groundwater and Gas Monitoring	S1-BH118, S1-BH119 (1 and 2), S1-BH120, S2-BH204, S2-BH207, S2-BH208, S2-BH210, S2-BH214, S2-BH217 (1 and 2), S2-BH219 (1 and 2), S2-BH220 (1 and 2), S2-BH225, S2-BH226, S2-BH227 (1 and 2), S2-BH229 (1 and 2), S2-BH232, S2-BH233, S2-BH236, S2-BH237, S2-BH239 (1 and 2), S2-BH240, S2-BH241, S2-BH242, S2-BH243 (1 and 2), S2-BH244 (1 and 2), S2-BH245, S2-BH246 (1 and 2), S2-BH247 (1 and 2), S2-BH248 (1 and 2), S2-BH250 (1 and 2), S2-BH252 (1 and 2), S2-BH261 (1 and 2)
Barometric/Temperature Monitoring	Stage 2 Monitoring Barometric Pressure and Temperature

CERTIFICATION OF CALIBRATION

4533

Date Of Calibration: 01-Feb-2023

Certificate Number: G508511_2/32102

Issued by: QED Environmental Systems Ltd.

Customer: **Jackson Drilling Ltd**

Jackson Drilling Northwood Farm Coxbridge Road Baltonsborough
GLASTONBURY Somerset BA6 8RA UNITED KINGDOM

Description: Gas Analyser

Model: GA5000

Serial Number: G508511

UKAS Accredited results:

Results after adjustment :

Methane (CH_4)		
Certified Gas (%)	**Instrument Reading (%)**	**Uncertainty (%)**
5.0	4.9	0.072
15.0	14.9	0.13
60.0	59.6	0.42

Carbon Dioxide (CO_2)		
Certified Gas (%)	**Instrument Reading (%)**	**Uncertainty (%)**
5.0	4.9	0.074
15.0	15.0	0.13
40.0	40.1	0.29

Oxygen (O_2)		
Certified Gas (%)	**Instrument Reading (%)**	**Uncertainty (%)**
21.5	21.5	0.25

The inwards assessment was carried out 23-Jan-2023.

The maximum adjustment is larger than the specification limit.

Inwards assessment data is available if requested.

All concentrations are molar.

CH_4, CO_2 readings recorded at : 31.3 °C ± 2.5 °C

O2 readings recorded at : 21.3 °C ± 2.5 °C

Barometric Pressure : 1013 mbar ± 4 mbar

Method of Test : The analyser is calibrated in a temperature controlled chamber using a series of reference gases, in compliance with procedure LP004.

Instrument has passed calibration as the measurement result is within the specification limit. The specification limit takes into account the measurement uncertainty.

The results relate only to the item calibrated

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance:114 IGC Instance:114

www.qedenv.com +44 (0) 333 800 0088 sales@qedenv.co.uk

QED Environmental Systems Ltd. Cyan Park - Unit 3, Jimmy Hill Way, Coventry, CV2 4QP, UNITED KINGDOM

Registered in England and Wales 1898734

CERTIFICATION OF CALIBRATION

4533

Date Of Calibration: 01-Feb-2023

Certificate Number: G508511_2/32102

Issued by: QED Environmental Systems Ltd.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Calibrations marked 'Non-UKAS Accredited results' on this certificate have been included for completeness.

Non-UKAS accredited results after adjustment:

Barometer (mbar)	
Reference	**Instrument Reading**
1013	1013

Additional Gas Cells		
Gas	**Certified Gas (ppm)**	**Instrument Reading (ppm)**
CO	505	505
H_2S	258.8	259

Internal Flow	
Applied (l/hr)	**Instrument Reading (l/hr)**
5.0	5.1
10.0	10.1

Date of Issue : 02-Feb-2023 **Approved by Signatory** Laura McBride

Laboratory Inspection

End of Certificate

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CERTIFICATION OF CALIBRATION

4533

Date Of Calibration: 16-Aug-2023

Certificate Number: G508511_1/33397

Issued by: QED Environmental Systems Ltd.

Customer: **Jackson Drilling Ltd**
Jackson Drilling Northwood Farm Coxbridge Road Baltonsborough
GLASTONBURY Somerset BA6 8RA UNITED KINGDOM

Description: Gas Analyser

Model: GA5000

Serial Number: G508511

UKAS Accredited results:

Results after adjustment :

Methane (CH_4)		
Certified Gas (%)	**Instrument Reading (%)**	**Uncertainty (%)**
5.0	4.9	0.072
15.0	14.9	0.13
60.0	59.7	0.42

Carbon Dioxide (CO_2)		
Certified Gas (%)	**Instrument Reading (%)**	**Uncertainty (%)**
5.0	5.0	0.074
15.0	15.0	0.13
40.0	40.1	0.29

Oxygen (O_2)		
Certified Gas (%)	**Instrument Reading (%)**	**Uncertainty (%)**
20.2	20.3	0.25

The inwards assessment was carried out 09-Aug-2023.
The maximum adjustment is larger than the specification limit.
Inwards assessment data is available if requested.

All concentrations are molar.

CH_4, CO_2 readings recorded at : 33.8 °C ± 2.5 °C

O2 readings recorded at : 25.5 °C ± 2.5 °C

Barometric Pressure : 1011 mbar ± 4 mbar

Method of Test : The analyser is calibrated in a temperature controlled chamber using a series of reference gases, in compliance with procedure LP004.

Instrument has passed calibration as the measurement result is within the specification limit. The specification limit takes into account the measurement uncertainty.
The results relate only to the item calibrated

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Calibration Instance:117 IGC Instance:117

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Registered in England and Wales 1898734

CERTIFICATION OF CALIBRATION

4533

Date Of Calibration: 16-Aug-2023

Certificate Number: G508511_1/33397

Issued by: QED Environmental Systems Ltd.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Calibrations marked 'Non-UKAS Accredited results' on this certificate have been included for completeness.

Non-UKAS accredited results after adjustment:

Barometer (mbar)	
Reference	**Instrument Reading**
1011	1011

Additional Gas Cells		
Gas	**Certified Gas (ppm)**	**Instrument Reading (ppm)**
CO	500	500
H_2S	273.5	274

Internal Flow	
Applied (l/hr)	**Instrument Reading (l/hr)**
5	5.2
10	10.2

Date of Issue : 17-Aug-2023 **Approved by Signatory**

Fani Zolota

Laboratory Inspection

End of Certificate

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Calibration Instance:117 IGC Instance:117

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Registered in England and Wales 1898734

CERTIFICATION OF CALIBRATION

4533

Date Of Calibration: 13-Jun-2023

Certificate Number: G504748_2/32981

Issued by: QED Environmental Systems Ltd.

Customer: **Jackson Drilling Ltd**
Jackson Drilling Northwood Farm Coxbridge Road Baltonsborough
GLASTONBURY Somerset BA6 8RA UNITED KINGDOM

Description: Gas Analyser

Model: GA5000

Serial Number: G504748

UKAS Accredited results:

Results after adjustment :

Methane (CH_4)		
Certified Gas (%)	**Instrument Reading (%)**	**Uncertainty (%)**
5.0	5.0	0.072
15.0	15.1	0.13
60.0	59.7	0.42

Carbon Dioxide (CO_2)		
Certified Gas (%)	**Instrument Reading (%)**	**Uncertainty (%)**
5.0	4.9	0.074
15.0	14.8	0.13
40.0	40.1	0.29

Oxygen (O_2)		
Certified Gas (%)	**Instrument Reading (%)**	**Uncertainty (%)**
20.2	20.3	0.25

The inwards assessment was carried out 19-May-2023.
The maximum adjustment is larger than the specification limit.
Inwards assessment data is available if requested.

All concentrations are molar.

CH_4, CO_2 readings recorded at : 32.1 °C ± 2.5 °C

O2 readings recorded at : 22.5 °C ± 2.5 °C

Barometric Pressure : 1005 mbar ± 4 mbar

Method of Test : The analyser is calibrated in a temperature controlled chamber using a series of reference gases, in compliance with procedure LP004.

Instrument has passed calibration as the measurement result is within the specification limit. The specification limit takes into account the measurement uncertainty.
The results relate only to the item calibrated

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Registered in England and Wales 1898734

CERTIFICATION OF CALIBRATION

Date Of Calibration: 13-Jun-2023

Certificate Number: G504748_2/32981

Issued by: QED Environmental Systems Ltd.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage

factor of k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Calibrations marked 'Non-UKAS Accredited results' on this certificate have been included for completeness.

Non-UKAS accredited results after adjustment:

Barometer (mbar)	
Reference	**Instrument Reading**
1005	1005

Internal Flow	
Applied (l/hr)	**Instrument Reading (l/hr)**
5.0	4.9
10.0	9.8

Date of Issue : 14-Jun-2023 **Approved by Signatory**

Fani Zolota

Laboratory Inspection

End of Certificate

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

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Registered in England and Wales 1898734

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S1-BH118	1	29/06/2023 10:30	Barometric Pressure	990	mbar	5	GA5000 SN:G504748	
S1-BH118	1	29/06/2023 10:30	Peak Carbon Dioxide	3.6	%	0.5	GA5000 SN:G504748	
S1-BH118	1	29/06/2023 10:30	Steady Carbon Dioxide	3.5	%	0.5	GA5000 SN:G504748	
S1-BH118	1	29/06/2023 10:30	Carbon Monoxide	6	ppm	2	GA5000 SN:G504748	
S1-BH118	1	29/06/2023 10:30	Gas Flow Rate	2.8	l/hr	0.3	GA5000 SN:G504748	
S1-BH118	1	29/06/2023 10:30	Differential Pressure	0.05	mbar	4	GA5000 SN:G504748	
S1-BH118	1	29/06/2023 10:30	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S1-BH118	1	29/06/2023 10:30	Peak Methane	0	%	0.5	GA5000 SN:G504748	
S1-BH118	1	29/06/2023 10:30	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S1-BH118	1	29/06/2023 10:30	Steady Oxygen	17.2	%	1	GA5000 SN:G504748	
S1-BH118	1	29/06/2023 10:30	Peak Oxygen	17.2	%	1	GA5000 SN:G504748	
S1-BH118	1	29/06/2023 10:37	Water Level	7.76	m	0.01	Dip Meter	Base dipped at 14.92m
S1-BH118	1	27/07/2023 10:29	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S1-BH118	1	27/07/2023 10:29	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S1-BH118	1	27/07/2023 10:29	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S1-BH118	1	27/07/2023 10:29	Peak Oxygen	19.8	%	1	GA5000 SN:G508511	
S1-BH118	1	27/07/2023 10:29	Steady Oxygen	19.8	%	1	GA5000 SN:G508511	
S1-BH118	1	27/07/2023 10:29	Differential Pressure	0.1	mbar	4	GA5000 SN:G508511	
S1-BH118	1	27/07/2023 10:29	Carbon Monoxide	4	ppm	2	GA5000 SN:G508511	
S1-BH118	1	27/07/2023 10:29	Gas Flow Rate	5.7	l/hr	0.3	GA5000 SN:G508511	
S1-BH118	1	27/07/2023 10:29	Steady Carbon Dioxide	1.7	%	0.5	GA5000 SN:G508511	
S1-BH118	1	27/07/2023 10:29	Barometric Pressure	977	mbar	5	GA5000 SN:G508511	
S1-BH118	1	27/07/2023 10:29	Peak Carbon Dioxide	1.7	%	0.5	GA5000 SN:G508511	
S1-BH118	1	27/07/2023 10:35	Water Level	6.93	m	0.01	Dip Meter	Base dipped at 14.97m
S1-BH118	1	29/08/2023 13:35	Water Level	7.13	m	0.01	Dip Meter	Base dipped at 15.30m
S1-BH118	1	29/08/2023 13:50	Steady Methane	0.2	%	0.5	GA5000 SN:G508511	
S1-BH118	1	29/08/2023 13:50	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S1-BH118	1	29/08/2023 13:50	Peak Methane	0.2	%	0.5	GA5000 SN:G508511	
S1-BH118	1	29/08/2023 13:50	Peak Oxygen	18.5	%	1	GA5000 SN:G508511	
S1-BH118	1	29/08/2023 13:50	Steady Oxygen	18.5	%	1	GA5000 SN:G508511	
S1-BH118	1	29/08/2023 13:50	Barometric Pressure	983	mbar	5	GA5000 SN:G508511	
S1-BH118	1	29/08/2023 13:50	Steady Carbon Dioxide	2.8	%	0.5	GA5000 SN:G508511	
S1-BH118	1	29/08/2023 13:50	Peak Carbon Dioxide	2.8	%	0.5	GA5000 SN:G508511	
S1-BH118	1	29/08/2023 13:50	Carbon Monoxide	5	ppm	2	GA5000 SN:G508511	
S1-BH118	1	29/08/2023 13:50	Gas Flow Rate	7.1	l/hr	0.3	GA5000 SN:G508511	
S1-BH118	1	29/08/2023 13:50	Differential Pressure	-4.91	mbar	4	GA5000 SN:G508511	
S1-BH119	2	29/06/2023 10:33	Differential Pressure	0.02	mbar	4	GA5000	
S1-BH119	2	29/06/2023 10:33	Gas Flow Rate	0.1	l/hr	0.3	GA5000	
S1-BH119	2	29/06/2023 10:33	Carbon Monoxide	1	ppm	2	GA5000	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S1-BH119	2	29/06/2023 10:33	Steady Carbon Dioxide	30.1	%	0.5	GA5000	
S1-BH119	2	29/06/2023 10:33	Barometric Pressure	991	mbar	5	GA5000	
S1-BH119	2	29/06/2023 10:33	Peak Carbon Dioxide	30.1	%	0.5	GA5000	
S1-BH119	2	29/06/2023 10:33	Steady Oxygen	7.1	%	1	GA5000	
S1-BH119	2	29/06/2023 10:33	Peak Oxygen	7.1	%	1	GA5000	
S1-BH119	2	29/06/2023 10:33	Hydrogen Sulphide	0	ppm	1.5	GA5000	
S1-BH119	2	29/06/2023 10:33	Peak Methane	5.7	%	0.5	GA5000	
S1-BH119	2	29/06/2023 10:33	Steady Methane	5.7	%	0.5	GA5000	
S1-BH119	2	29/06/2023 10:35	Water Level	2.16	m	0.01	Dip Meter	Base dipped at 3.60m
S1-BH119	1	29/06/2023 10:52	Steady Methane	0.4	%	0.5	GA5000	
S1-BH119	1	29/06/2023 10:52	Peak Methane	1.6	%	0.5	GA5000	
S1-BH119	1	29/06/2023 10:52	Steady Oxygen	19.5	%	1	GA5000	
S1-BH119	1	29/06/2023 10:52	Peak Oxygen	15.9	%	1	GA5000	
S1-BH119	1	29/06/2023 10:52	Peak Carbon Dioxide	4.9	%	0.5	GA5000	
S1-BH119	1	29/06/2023 10:52	Barometric Pressure	991	mbar	5	GA5000	
S1-BH119	1	29/06/2023 10:52	Carbon Monoxide	0	ppm	2	GA5000	
S1-BH119	1	29/06/2023 10:52	Steady Carbon Dioxide	1.7	%	0.5	GA5000	
S1-BH119	1	29/06/2023 10:52	Gas Flow Rate	0	l/hr	0.3	GA5000	
S1-BH119	1	29/06/2023 10:52	Differential Pressure	-0.07	mbar	4	GA5000	
S1-BH119	1	29/06/2023 10:52	Hydrogen Sulphide	0	ppm	1.5	GA5000	
S1-BH119	1	29/06/2023 11:13	Water Level	7.61	m	0.01	Dip Meter	Base dipped at 15.00m
S1-BH119	1	27/07/2023 10:32	Peak Methane	2.2	%	0.5	GA5000 SN:G504748	
S1-BH119	1	27/07/2023 10:32	Steady Methane	2.2	%	0.5	GA5000 SN:G504748	
S1-BH119	1	27/07/2023 10:32	Steady Oxygen	15.2	%	1	GA5000 SN:G504748	
S1-BH119	1	27/07/2023 10:32	Peak Oxygen	15.2	%	1	GA5000 SN:G504748	
S1-BH119	1	27/07/2023 10:32	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S1-BH119	1	27/07/2023 10:32	Differential Pressure	19.3	mbar	4	GA5000 SN:G504748	
S1-BH119	1	27/07/2023 10:32	Gas Flow Rate	1.7	l/hr	0.3	GA5000 SN:G504748	
S1-BH119	1	27/07/2023 10:32	Carbon Monoxide	3	ppm	2	GA5000 SN:G504748	
S1-BH119	1	27/07/2023 10:32	Steady Carbon Dioxide	5.4	%	0.5	GA5000 SN:G504748	
S1-BH119	1	27/07/2023 10:32	Barometric Pressure	975	mbar	5	GA5000 SN:G504748	
S1-BH119	1	27/07/2023 10:32	Peak Carbon Dioxide	5.4	%	0.5	GA5000 SN:G504748	
S1-BH119	2	27/07/2023 10:38	Peak Carbon Dioxide	28.9	%	0.5	GA5000 SN:G504748	
S1-BH119	2	27/07/2023 10:38	Barometric Pressure	975	mbar	5	GA5000 SN:G504748	
S1-BH119	2	27/07/2023 10:38	Steady Carbon Dioxide	28.8	%	0.5	GA5000 SN:G504748	
S1-BH119	2	27/07/2023 10:38	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S1-BH119	2	27/07/2023 10:38	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	
S1-BH119	2	27/07/2023 10:38	Differential Pressure	-0.07	mbar	4	GA5000 SN:G504748	
S1-BH119	2	27/07/2023 10:38	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S1-BH119	2	27/07/2023 10:38	Steady Oxygen	0.4	%	1	GA5000 SN:G504748	
S1-BH119	2	27/07/2023 10:38	Peak Oxygen	0.4	%	1	GA5000 SN:G504748	
S1-BH119	2	27/07/2023 10:38	Peak Methane	27.6	%	0.5	GA5000 SN:G504748	
S1-BH119	2	27/07/2023 10:38	Steady Methane	27.6	%	0.5	GA5000 SN:G504748	
S1-BH119	1	27/07/2023 10:42	Water Level	7.97	m	0.01	Dip Meter	Base dipped at 15.35m
S1-BH119	2	27/07/2023 10:44	Water Level	2.67	m	0.01	Dip Meter	Base dipped at 4.00m
S1-BH119	1	29/08/2023 12:45	Steady Methane	1.9	%	0.5	GA5000 SN:G508511	
S1-BH119	1	29/08/2023 12:45	Peak Methane	1.9	%	0.5	GA5000 SN:G508511	
S1-BH119	1	29/08/2023 12:45	Peak Oxygen	16.2	%	1	GA5000 SN:G508511	
S1-BH119	1	29/08/2023 12:45	Steady Oxygen	16.2	%	1	GA5000 SN:G508511	
S1-BH119	1	29/08/2023 12:45	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S1-BH119	1	29/08/2023 12:45	Differential Pressure	3.88	mbar	4	GA5000 SN:G508511	
S1-BH119	1	29/08/2023 12:45	Gas Flow Rate	4.5	l/hr	0.3	GA5000 SN:G508511	
S1-BH119	1	29/08/2023 12:45	Carbon Monoxide	3	ppm	2	GA5000 SN:G508511	
S1-BH119	1	29/08/2023 12:45	Steady Carbon Dioxide	4.9	%	0.5	GA5000 SN:G508511	
S1-BH119	1	29/08/2023 12:45	Barometric Pressure	983	mbar	5	GA5000 SN:G508511	
S1-BH119	1	29/08/2023 12:45	Peak Carbon Dioxide	4.9	%	0.5	GA5000 SN:G508511	
S1-BH119	2	29/08/2023 12:52	Peak Carbon Dioxide	26.5	%	0.5	GA5000 SN:G508511	
S1-BH119	2	29/08/2023 12:52	Barometric Pressure	983	mbar	5	GA5000 SN:G508511	
S1-BH119	2	29/08/2023 12:52	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S1-BH119	2	29/08/2023 12:52	Steady Carbon Dioxide	26.4	%	0.5	GA5000 SN:G508511	
S1-BH119	2	29/08/2023 12:52	Gas Flow Rate	-0.3	l/hr	0.3	GA5000 SN:G508511	
S1-BH119	2	29/08/2023 12:52	Differential Pressure	0.07	mbar	4	GA5000 SN:G508511	
S1-BH119	2	29/08/2023 12:52	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S1-BH119	2	29/08/2023 12:52	Steady Oxygen	0.9	%	1	GA5000 SN:G508511	
S1-BH119	2	29/08/2023 12:52	Peak Oxygen	0.9	%	1	GA5000 SN:G508511	
S1-BH119	2	29/08/2023 12:52	Peak Methane	28.2	%	0.5	GA5000 SN:G508511	
S1-BH119	2	29/08/2023 12:52	Steady Methane	28	%	0.5	GA5000 SN:G508511	
S1-BH119	1	29/08/2023 12:54	Water Level	8	m	0.01	Dip Meter	Base dipped at 15.20m
S1-BH119	2	29/08/2023 12:56	Water Level	3.17	m	0.01	Dip Meter	Base dipped at 4.00m
S1-BH120	1	29/06/2023 12:06	Steady Methane	0.3	%	0.5	GA5000	
S1-BH120	1	29/06/2023 12:06	Peak Methane	1.3	%	0.5	GA5000	
S1-BH120	1	29/06/2023 12:06	Steady Oxygen	21.4	%	1	GA5000	
S1-BH120	1	29/06/2023 12:06	Peak Oxygen	18.6	%	1	GA5000	
S1-BH120	1	29/06/2023 12:06	Hydrogen Sulphide	2	ppm	1.5	GA5000	
S1-BH120	1	29/06/2023 12:06	Gas Flow Rate	0	l/hr	0.3	GA5000	
S1-BH120	1	29/06/2023 12:06	Gas Flow Rate	0.02	l/hr	0.3	GA5000	
S1-BH120	1	29/06/2023 12:06	Carbon Monoxide	11	ppm	2	GA5000	
S1-BH120	1	29/06/2023 12:06	Steady Carbon Dioxide	0.4	%	0.5	GA5000	

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Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S1-BH120	1	29/06/2023 12:06	Peak Carbon Dioxide	1.3	%	0.5	GA5000	
S1-BH120	1	29/06/2023 12:06	Barometric Pressure	991	mbar	5	GA5000	
S1-BH120	1	29/06/2023 12:10	Water Level	9.27	m	0.01	Dip Meter	Base dipped at 19.41m
S1-BH120	1	27/07/2023 12:04	Steady Methane	1.2	%	0.5	GA5000 SN:G504748	
S1-BH120	1	27/07/2023 12:04	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S1-BH120	1	27/07/2023 12:04	Peak Methane	1.2	%	0.5	GA5000 SN:G504748	
S1-BH120	1	27/07/2023 12:04	Steady Oxygen	14.8	%	1	GA5000 SN:G504748	
S1-BH120	1	27/07/2023 12:04	Peak Oxygen	14.8	%	1	GA5000 SN:G504748	
S1-BH120	1	27/07/2023 12:04	Barometric Pressure	975	mbar	5	GA5000 SN:G504748	
S1-BH120	1	27/07/2023 12:04	Peak Carbon Dioxide	3.5	%	0.5	GA5000 SN:G504748	
S1-BH120	1	27/07/2023 12:04	Steady Carbon Dioxide	3.5	%	0.5	GA5000 SN:G504748	
S1-BH120	1	27/07/2023 12:04	Gas Flow Rate	2.6	l/hr	0.3	GA5000 SN:G504748	
S1-BH120	1	27/07/2023 12:07	Water Level	9.1	m	0.01	Dip Meter	Base dipped at 20.54m
S1-BH120	1	29/08/2023 14:16	Water Level	9.1	m	0.01	Dip Meter	Base dipped at 20.40m
S1-BH120	1	29/08/2023 14:20	Steady Methane	0.6	%	0.5	GA5000 SN:G508511	
S1-BH120	1	29/08/2023 14:20	Peak Methane	0.9	%	0.5	GA5000 SN:G508511	
S1-BH120	1	29/08/2023 14:20	Steady Oxygen	18.2	%	1	GA5000 SN:G508511	
S1-BH120	1	29/08/2023 14:20	Peak Oxygen	16.3	%	1	GA5000 SN:G508511	
S1-BH120	1	29/08/2023 14:20	Gas Flow Rate	4	l/hr	0.3	GA5000 SN:G508511	
S1-BH120	1	29/08/2023 14:20	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S1-BH120	1	29/08/2023 14:20	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S1-BH120	1	29/08/2023 14:20	Differential Pressure	1.47	mbar	4	GA5000 SN:G508511	
S1-BH120	1	29/08/2023 14:20	Steady Carbon Dioxide	1.6	%	0.5	GA5000 SN:G508511	
S1-BH120	1	29/08/2023 14:20	Peak Carbon Dioxide	2.7	%	0.5	GA5000 SN:G508511	
S1-BH120	1	29/08/2023 14:20	Barometric Pressure	982	mbar	5	GA5000 SN:G508511	
S2-BH204	1	28/06/2023 14:03	Barometric Pressure	995	mbar	5	GA5000	
S2-BH204	1	28/06/2023 14:03	Peak Carbon Dioxide	6.8	%	0.5	GA5000	
S2-BH204	1	28/06/2023 14:03	Steady Carbon Dioxide	6.8	%	0.5	GA5000	
S2-BH204	1	28/06/2023 14:03	Differential Pressure	-0.1	mbar	4	GA5000	
S2-BH204	1	28/06/2023 14:03	Hydrogen Sulphide	1	ppm	1.5	GA5000	
S2-BH204	1	28/06/2023 14:03	Carbon Monoxide	3	ppm	2	GA5000	
S2-BH204	1	28/06/2023 14:03	Gas Flow Rate	-0.07	l/hr	0.3	GA5000	
S2-BH204	1	28/06/2023 14:03	Peak Oxygen	11.3	%	1	GA5000	
S2-BH204	1	28/06/2023 14:03	Steady Oxygen	11.3	%	1	GA5000	
S2-BH204	1	28/06/2023 14:03	Peak Methane	0	%	0.5	GA5000	
S2-BH204	1	28/06/2023 14:03	Steady Methane	0	%	0.5	GA5000	
S2-BH204	1	28/06/2023 14:15	LNAPL	27.84	m	0.01	Interface Probe	Base dipped at 31.16m.
S2-BH204	1	28/07/2023 13:36	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH204	1	28/07/2023 13:36	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	

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Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH204	1	28/07/2023 13:36	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH204	1	28/07/2023 13:36	Steady Oxygen	11.5	%	1	GA5000 SN:G508511	
S2-BH204	1	28/07/2023 13:36	Peak Oxygen	11.5	%	1	GA5000 SN:G508511	
S2-BH204	1	28/07/2023 13:36	Gas Flow Rate	-0.3	l/hr	0.3	GA5000 SN:G508511	
S2-BH204	1	28/07/2023 13:36	Carbon Monoxide	2	ppm	2	GA5000 SN:G508511	
S2-BH204	1	28/07/2023 13:36	Differential Pressure	0.12	mbar	4	GA5000 SN:G508511	
S2-BH204	1	28/07/2023 13:36	Peak Carbon Dioxide	6.4	%	0.5	GA5000 SN:G508511	
S2-BH204	1	28/07/2023 13:36	Steady Carbon Dioxide	6.4	%	0.5	GA5000 SN:G508511	
S2-BH204	1	28/07/2023 13:36	Barometric Pressure	984	mbar	5	GA5000 SN:G508511	
S2-BH204	1	28/07/2023 13:46	Water Level	27.58	m	0.01	Dip Meter	Base dipped at 30.16m
S2-BH204	1	04/09/2023 09:29	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH204	1	04/09/2023 09:29	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH204	1	04/09/2023 09:29	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH204	1	04/09/2023 09:29	Steady Oxygen	11.8	%	1	GA5000 SN:G508511	
S2-BH204	1	04/09/2023 09:29	Peak Oxygen	11.8	%	1	GA5000 SN:G508511	
S2-BH204	1	04/09/2023 09:29	Barometric Pressure	986	mbar	5	GA5000 SN:G508511	
S2-BH204	1	04/09/2023 09:29	Steady Carbon Dioxide	6.7	%	0.5	GA5000 SN:G508511	
S2-BH204	1	04/09/2023 09:29	Carbon Monoxide	3	ppm	2	GA5000 SN:G508511	
S2-BH204	1	04/09/2023 09:29	Peak Carbon Dioxide	6.7	%	0.5	GA5000 SN:G508511	
S2-BH204	1	04/09/2023 09:29	Differential Pressure	0.09	mbar	4	GA5000 SN:G508511	
S2-BH204	1	04/09/2023 09:29	Gas Flow Rate	-0.1	l/hr	0.3	GA5000 SN:G508511	
S2-BH204	1	04/09/2023 09:34	Water Level	28.11	m	0.01	Dip Meter	Base dipped at 30.17m
S2-BH207	1	28/06/2023 14:08	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH207	1	28/06/2023 14:08	Peak Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH207	1	28/06/2023 14:08	Peak Oxygen	20.5	%	1	GA5000 SN:G504748	
S2-BH207	1	28/06/2023 14:08	Steady Oxygen	20.6	%	1	GA5000 SN:G504748	
S2-BH207	1	28/06/2023 14:08	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH207	1	28/06/2023 14:08	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH207	1	28/06/2023 14:08	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH207	1	28/06/2023 14:08	Differential Pressure	0.72	mbar	4	GA5000 SN:G504748	
S2-BH207	1	28/06/2023 14:08	Steady Carbon Dioxide	1.1	%	0.5	GA5000 SN:G504748	
S2-BH207	1	28/06/2023 14:08	Peak Carbon Dioxide	1.1	%	0.5	GA5000 SN:G504748	
S2-BH207	1	28/06/2023 14:08	Barometric Pressure	992	mbar	5	GA5000 SN:G504748	
S2-BH207	1	28/06/2023 14:16	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 40.23m
S2-BH207	1	28/07/2023 14:35	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH207	1	28/07/2023 14:35	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH207	1	28/07/2023 14:35	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH207	1	28/07/2023 14:35	Steady Oxygen	20.2	%	1	GA5000 SN:G508511	
S2-BH207	1	28/07/2023 14:35	Peak Oxygen	19.9	%	1	GA5000 SN:G508511	

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Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH207	1	28/07/2023 14:35	Barometric Pressure	983	mbar	5	GA5000 SN:G508511	
S2-BH207	1	28/07/2023 14:35	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511	
S2-BH207	1	28/07/2023 14:35	Peak Carbon Dioxide	1.7	%	0.5	GA5000 SN:G508511	
S2-BH207	1	28/07/2023 14:35	Steady Carbon Dioxide	1.7	%	0.5	GA5000 SN:G508511	
S2-BH207	1	28/07/2023 14:35	Differential Pressure	-0.14	mbar	4	GA5000 SN:G508511	
S2-BH207	1	28/07/2023 14:35	Gas Flow Rate	0.3	l/hr	0.3	GA5000 SN:G508511	
S2-BH207	1	28/07/2023 14:41	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 39.81m
S2-BH207	1	04/09/2023 09:37	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH207	1	04/09/2023 09:37	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH207	1	04/09/2023 09:37	Peak Oxygen	20.4	%	1	GA5000 SN:G508511	
S2-BH207	1	04/09/2023 09:37	Steady Oxygen	20.6	%	1	GA5000 SN:G508511	
S2-BH207	1	04/09/2023 09:37	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH207	1	04/09/2023 09:37	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511	
S2-BH207	1	04/09/2023 09:37	Differential Pressure	0.12	mbar	4	GA5000 SN:G508511	
S2-BH207	1	04/09/2023 09:37	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH207	1	04/09/2023 09:37	Steady Carbon Dioxide	1.5	%	0.5	GA5000 SN:G508511	
S2-BH207	1	04/09/2023 09:37	Barometric Pressure	986	mbar	5	GA5000 SN:G508511	
S2-BH207	1	04/09/2023 09:37	Peak Carbon Dioxide	1.5	%	0.5	GA5000 SN:G508511	
S2-BH207	1	04/09/2023 09:40	Water Level		m	0.01	Dip Meter	Base dipped at 39.92m Dry
S2-BH208	1	28/06/2023 14:30	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH208	1	28/06/2023 14:30	Peak Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH208	1	28/06/2023 14:30	Steady Oxygen	20.4	%	1	GA5000 SN:G504748	
S2-BH208	1	28/06/2023 14:30	Peak Oxygen	20.4	%	1	GA5000 SN:G504748	
S2-BH208	1	28/06/2023 14:30	Peak Carbon Dioxide	1.8	%	0.5	GA5000 SN:G504748	
S2-BH208	1	28/06/2023 14:30	Barometric Pressure	992	mbar	5	GA5000 SN:G504748	
S2-BH208	1	28/06/2023 14:30	Steady Carbon Dioxide	1.7	%	0.5	GA5000 SN:G504748	
S2-BH208	1	28/06/2023 14:30	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH208	1	28/06/2023 14:30	Differential Pressure	3.28	mbar	4	GA5000 SN:G504748	
S2-BH208	1	28/06/2023 14:30	Carbon Monoxide	2	ppm	2	GA5000 SN:G504748	
S2-BH208	1	28/06/2023 14:30	Gas Flow Rate	-0.1	l/hr	0.3	GA5000 SN:G504748klkl	
S2-BH208	1	28/06/2023 14:39	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 40.28m
S2-BH208	1	28/07/2023 14:54	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH208	1	28/07/2023 14:54	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH208	1	28/07/2023 14:54	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH208	1	28/07/2023 14:54	Peak Oxygen	20.3	%	1	GA5000 SN:G508511	
S2-BH208	1	28/07/2023 14:54	Steady Oxygen	20.3	%	1	GA5000 SN:G508511	
S2-BH208	1	28/07/2023 14:54	Gas Flow Rate	0.3	l/hr	0.3	GA5000 SN:G508511	
S2-BH208	1	28/07/2023 14:54	Differential Pressure	-0.16	mbar	4	GA5000 SN:G508511	
S2-BH208	1	28/07/2023 14:54	Carbon Monoxide	2	ppm	2	GA5000 SN:G508511	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH208	1	28/07/2023 14:54	Steady Carbon Dioxide	2.3	%	0.5	GA5000 SN:G508511	
S2-BH208	1	28/07/2023 14:54	Barometric Pressure	983	mbar	5	GA5000 SN:G508511	
S2-BH208	1	28/07/2023 14:54	Peak Carbon Dioxide	2.3	%	0.5	GA5000 SN:G508511	
S2-BH208	1	28/07/2023 15:02	Water Level	32.56	m	0.01	Dip Meter	Base dipped at 39.98m
S2-BH208	1	04/09/2023 09:41	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH208	1	04/09/2023 09:41	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH208	1	04/09/2023 09:41	Steady Oxygen	20.2	%	1	GA5000 SN:G508511	
S2-BH208	1	04/09/2023 09:41	Peak Oxygen	20.2	%	1	GA5000 SN:G508511	
S2-BH208	1	04/09/2023 09:41	Barometric Pressure	988	mbar	5	GA5000 SN:G508511	
S2-BH208	1	04/09/2023 09:41	Steady Carbon Dioxide	2.1	%	0.5	GA5000 SN:G508511	
S2-BH208	1	04/09/2023 09:41	Peak Carbon Dioxide	2.1	%	0.5	GA5000 SN:G508511	
S2-BH208	1	04/09/2023 09:41	Differential Pressure	0.2	mbar	4	GA5000 SN:G508511	
S2-BH208	1	04/09/2023 09:41	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH208	1	04/09/2023 09:41	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G508511	
S2-BH208	1	04/09/2023 09:41	Carbon Monoxide	2	ppm	2	GA5000 SN:G508511	
S2-BH208	1	04/09/2023 09:43	Water Level	34.92	m	0.01	Dip Meter	Base dipped at 39.96m
S2-BH210	1	28/06/2023 14:40	Peak Methane	0.4	%	0.5	GA5000	
S2-BH210	1	28/06/2023 14:40	Steady Methane	0.4	%	0.5	GA5000	
S2-BH210	1	28/06/2023 14:40	Peak Oxygen	20.6	%	1	GA5000	
S2-BH210	1	28/06/2023 14:40	Steady Oxygen	21.5	%	1	GA5000	
S2-BH210	1	28/06/2023 14:40	Carbon Monoxide	4	ppm	2	GA5000	
S2-BH210	1	28/06/2023 14:40	Gas Flow Rate	0.3	l/hr	0.3	GA5000	
S2-BH210	1	28/06/2023 14:40	Hydrogen Sulphide	1	ppm	1.5	GA5000	
S2-BH210	1	28/06/2023 14:40	Differential Pressure	-0.12	mbar	4	GA5000	
S2-BH210	1	28/06/2023 14:40	Steady Carbon Dioxide	0.4	%	0.5	GA5000	
S2-BH210	1	28/06/2023 14:40	Peak Carbon Dioxide	0.4	%	0.5	GA5000	
S2-BH210	1	28/06/2023 14:40	Barometric Pressure	993	mbar	5	GA5000	
S2-BH210	1	28/06/2023 14:45	Water Level	37.62	m	0.01	Dip Meter	Base dipped at 39.91m
S2-BH210	1	28/07/2023 14:46	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH210	1	28/07/2023 14:46	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH210	1	28/07/2023 14:46	Peak Oxygen	20.1	%	1	GA5000 SN:G504748	
S2-BH210	1	28/07/2023 14:46	Steady Oxygen	20.1	%	1	GA5000 SN:G504748	
S2-BH210	1	28/07/2023 14:46	Barometric Pressure	981	mbar	5	GA5000 SN:G504748	
S2-BH210	1	28/07/2023 14:46	Peak Carbon Dioxide	1.6	%	0.5	GA5000 SN:G504748	
S2-BH210	1	28/07/2023 14:46	Steady Carbon Dioxide	1.6	%	0.5	GA5000 SN:G504748	
S2-BH210	1	28/07/2023 14:46	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH210	1	28/07/2023 14:46	Differential Pressure	-0.02	mbar	4	GA5000 SN:G504748	
S2-BH210	1	28/07/2023 14:46	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH210	1	28/07/2023 14:46	Carbon Monoxide	8	ppm	2	GA5000 SN:G504748	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH210	1	28/07/2023 14:48	Water Level	38.56	m	0.01	Dip Meter	Base dipped at 39.78m
S2-BH210	1	04/09/2023 09:46	Steady Methane	0.2	%	0.5	GA5000 SN:G508511	
S2-BH210	1	04/09/2023 09:46	Peak Methane	0.2	%	0.5	GA5000 SN:G508511	
S2-BH210	1	04/09/2023 09:46	Steady Oxygen	20.3	%	1	GA5000 SN:G508511	
S2-BH210	1	04/09/2023 09:46	Peak Oxygen	20.3	%	1	GA5000 SN:G508511	
S2-BH210	1	04/09/2023 09:46	Carbon Monoxide	6	ppm	2	GA5000 SN:G508511	
S2-BH210	1	04/09/2023 09:46	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G508511	
S2-BH210	1	04/09/2023 09:46	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH210	1	04/09/2023 09:46	Differential Pressure	-0.01	mbar	4	GA5000 SN:G508511	
S2-BH210	1	04/09/2023 09:46	Steady Carbon Dioxide	1.1	%	0.5	GA5000 SN:G508511	
S2-BH210	1	04/09/2023 09:46	Peak Carbon Dioxide	1.1	%	0.5	GA5000 SN:G508511	
S2-BH210	1	04/09/2023 09:46	Barometric Pressure	986	mbar	5	GA5000 SN:G508511	
S2-BH210	1	04/09/2023 09:49	Water Level	37.68	m	0.01	Dip Meter	Base dipped at 39.89m
S2-BH214	1	30/06/2023 10:14	Steady Methane	0	%	0.5	GA5000	
S2-BH214	1	30/06/2023 10:14	Peak Methane	0	%	0.5	GA5000	
S2-BH214	1	30/06/2023 10:14	Steady Oxygen	21.3	%	1	GA5000	
S2-BH214	1	30/06/2023 10:14	Peak Oxygen	21.3	%	1	GA5000	
S2-BH214	1	30/06/2023 10:14	Barometric Pressure	988	mbar	5	GA5000	
S2-BH214	1	30/06/2023 10:14	Steady Carbon Dioxide	0.3	%	0.5	GA5000	
S2-BH214	1	30/06/2023 10:14	Peak Carbon Dioxide	0.4	%	0.5	GA5000	
S2-BH214	1	30/06/2023 10:14	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH214	1	30/06/2023 10:14	Hydrogen Sulphide	0	ppm	1.5	GA5000	
S2-BH214	1	30/06/2023 10:14	Differential Pressure	0.19	mbar	4	GA5000	
S2-BH214	1	30/06/2023 10:14	Gas Flow Rate	0.3	l/hr	0.3	GA5000	
S2-BH214	1	30/06/2023 10:15	Gas Flow Rate	0.3	l/hr	0.3	GA5000	
S2-BH214	1	30/06/2023 10:15	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH214	1	30/06/2023 10:15	Differential Pressure	0.19	mbar	4	GA5000	
S2-BH214	1	30/06/2023 10:15	Hydrogen Sulphide	0	ppm	1.5	GA5000	
S2-BH214	1	30/06/2023 10:15	Steady Carbon Dioxide	0.3	%	0.5	GA5000	
S2-BH214	1	30/06/2023 10:15	Barometric Pressure	988	mbar	5	GA5000	
S2-BH214	1	30/06/2023 10:15	Peak Carbon Dioxide	0.4	%	0.5	GA5000	
S2-BH214	1	30/06/2023 10:15	Steady Oxygen	21.3	%	1	GA5000	
S2-BH214	1	30/06/2023 10:15	Peak Oxygen	21.3	%	1	GA5000	
S2-BH214	1	30/06/2023 10:15	Peak Methane	0	%	0.5	GA5000	
S2-BH214	1	30/06/2023 10:15	Steady Methane	0	%	0.5	GA5000	
S2-BH214	1	30/06/2023 10:23	Water Level	29.36		0.01	Dip Meter	Base dipped at 30.05m
S2-BH214	1	30/06/2023 10:24	Water Level	29.36	m	0.01	Dip Meter	Base dipped at 30.05m
S2-BH214	1	31/07/2023 15:56	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH214	1	31/07/2023 15:56	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH214	1	31/07/2023 15:56	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH214	1	31/07/2023 15:56	Peak Oxygen	19.4	%	1	GA5000 SN:G504748	
S2-BH214	1	31/07/2023 15:56	Steady Oxygen	19.4	%	1	GA5000 SN:G504748	
S2-BH214	1	31/07/2023 15:56	Peak Carbon Dioxide	0.7	%	0.5	GA5000 SN:G504748	
S2-BH214	1	31/07/2023 15:56	Barometric Pressure	979	mbar	5	GA5000 SN:G504748	
S2-BH214	1	31/07/2023 15:56	Steady Carbon Dioxide	0.7	%	0.5	GA5000 SN:G504748	
S2-BH214	1	31/07/2023 15:56	Differential Pressure	0.12	mbar	4	GA5000 SN:G504748	
S2-BH214	1	31/07/2023 15:56	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH214	1	31/07/2023 15:56	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH214	1	31/07/2023 16:06	Water Level	29.09	m	0.01	Dip Meter	Base dipped at 29.60m
S2-BH214	1	29/08/2023 09:45	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH214	1	29/08/2023 09:45	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH214	1	29/08/2023 09:45	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH214	1	29/08/2023 09:45	Steady Oxygen	20.2	%	1	GA5000 SN:G508511	
S2-BH214	1	29/08/2023 09:45	Peak Oxygen	20.2	%	1	GA5000 SN:G508511	
S2-BH214	1	29/08/2023 09:45	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G508511	
S2-BH214	1	29/08/2023 09:45	Differential Pressure	0.16	mbar	4	GA5000 SN:G508511	
S2-BH214	1	29/08/2023 09:45	Steady Carbon Dioxide	0.4	%	0.5	GA5000 SN:G508511	
S2-BH214	1	29/08/2023 09:45	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH214	1	29/08/2023 09:45	Peak Carbon Dioxide	0.5	%	0.5	GA5000 SN:G508511	
S2-BH214	1	29/08/2023 09:45	Barometric Pressure	989	mbar	5	GA5000 SN:G508511	
S2-BH214	1	29/08/2023 09:56	Water Level	29.24	m	0.01	Dip Meter	Base dipped at 29.91m
S2-BH217	1	06/07/2023 12:41	Water Level	15.62	m	0.01	Dip Meter	Base dipped at 29.55m
S2-BH217	1	28/07/2023 10:23	Steady Oxygen	17.1	%	1	GA5000 SN:G504748	
S2-BH217	1	28/07/2023 10:23	Peak Oxygen	17.1	%	1	GA5000 SN:G504748	
S2-BH217	1	28/07/2023 10:23	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH217	1	28/07/2023 10:23	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH217	1	28/07/2023 10:23	Barometric Pressure	980	mbar	5	GA5000 SN:G504748	
S2-BH217	1	28/07/2023 10:23	Peak Carbon Dioxide	2.9	%	0.5	GA5000 SN:G504748	
S2-BH217	1	28/07/2023 10:23	Steady Carbon Dioxide	2.9	%	0.5	GA5000 SN:G504748	
S2-BH217	1	28/07/2023 10:23	Differential Pressure	-2.67	mbar	4	GA5000 SN:G504748	
S2-BH217	1	28/07/2023 10:23	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH217	1	28/07/2023 10:23	Gas Flow Rate	14.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH217	1	28/07/2023 10:23	Carbon Monoxide	6	ppm	2	GA5000 SN:G504748	
S2-BH217	2	28/07/2023 10:29	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH217	2	28/07/2023 10:29	Gas Flow Rate	0.3	l/hr	0.3	GA5000 SN:G504748	
S2-BH217	2	28/07/2023 10:29	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH217	2	28/07/2023 10:29	Differential Pressure	-0.03	mbar	4	GA5000 SN:G504748	
S2-BH217	2	28/07/2023 10:29	Steady Carbon Dioxide	5.6	%	0.5	GA5000 SN:G504748	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH217	2	28/07/2023 10:29	Barometric Pressure	980	mbar	5	GA5000 SN:G504748	
S2-BH217	2	28/07/2023 10:29	Peak Carbon Dioxide	5.6	%	0.5	GA5000 SN:G504748	
S2-BH217	2	28/07/2023 10:29	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH217	2	28/07/2023 10:29	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH217	2	28/07/2023 10:29	Peak Oxygen	2.6	%	1	GA5000 SN:G504748	
S2-BH217	2	28/07/2023 10:29	Steady Oxygen	2.6	%	1	GA5000 SN:G504748	
S2-BH217	1	28/07/2023 10:34	Water Level	17.06	m	0.01	Dip Meter	Base dipped at 29.96m
S2-BH217	2	28/07/2023 10:38	Water Level	5.62	m	0.01	Dip Meter	Base dipped at 6.10m
S2-BH217	1	30/08/2023 10:48	Steady Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH217	1	30/08/2023 10:48	Peak Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH217	1	30/08/2023 10:48	Steady Oxygen	17.8	%	1	GA5000 SN:G508511	
S2-BH217	1	30/08/2023 10:48	Peak Oxygen	16.8	%	1	GA5000 SN:G508511	
S2-BH217	1	30/08/2023 10:48	Barometric Pressure	984	mbar	5	GA5000 SN:G508511	
S2-BH217	1	30/08/2023 10:48	Peak Carbon Dioxide	2.4	%	0.5	GA5000 SN:G508511	
S2-BH217	1	30/08/2023 10:48	Steady Carbon Dioxide	1.6	%	0.5	GA5000 SN:G508511	
S2-BH217	1	30/08/2023 10:48	Differential Pressure	14.6	mbar	4	GA5000 SN:G508511	
S2-BH217	1	30/08/2023 10:48	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH217	1	30/08/2023 10:48	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH217	1	30/08/2023 10:48	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH217	2	30/08/2023 10:54	Gas Flow Rate	1.36	l/hr	0.3	GA5000 SN:G508511	
S2-BH217	2	30/08/2023 10:54	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH217	2	30/08/2023 10:54	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH217	2	30/08/2023 10:54	Gas Flow Rate	1	l/hr	0.3	GA5000 SN:G508511	
S2-BH217	2	30/08/2023 10:54	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH217	2	30/08/2023 10:54	Differential Pressure	1.36	mbar	4	GA5000 SN:G508511	
S2-BH217	2	30/08/2023 10:54	Differential Pressure	1.36	mbar	4	GA5000 SN:G508511	
S2-BH217	2	30/08/2023 10:54	Steady Carbon Dioxide	6.1	%	0.5	GA5000 SN:G508511	
S2-BH217	2	30/08/2023 10:54	Steady Carbon Dioxide	6.1	%	0.5	GA5000 SN:G508511	
S2-BH217	2	30/08/2023 10:54	Barometric Pressure	984	mbar	5	GA5000 SN:G508511	
S2-BH217	2	30/08/2023 10:54	Barometric Pressure	984	mbar	5	GA5000 SN:G508511	
S2-BH217	2	30/08/2023 10:54	Peak Carbon Dioxide	6.1	%	0.5	GA5000 SN:G508511	
S2-BH217	2	30/08/2023 10:54	Peak Carbon Dioxide	6.1	%	0.5	GA5000 SN:G508511	
S2-BH217	2	30/08/2023 10:54	Steady Oxygen	0.1	%	1	GA5000 SN:G508511	
S2-BH217	2	30/08/2023 10:54	Peak Oxygen	0.1	%	1	GA5000 SN:G508511	
S2-BH217	2	30/08/2023 10:54	Steady Oxygen	0.1	%	1	GA5000 SN:G508511	
S2-BH217	2	30/08/2023 10:54	Peak Oxygen	0.1	%	1	GA5000 SN:G508511	
S2-BH217	2	30/08/2023 10:54	Peak Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH217	2	30/08/2023 10:54	Peak Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH217	2	30/08/2023 10:54	Steady Methane	0.1	%	0.5	GA5000 SN:G508511	

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Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH217	2	30/08/2023 10:54	Steady Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH217	2	30/08/2023 10:54	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH217	2	30/08/2023 10:56	Water Level	5.88	m	0.01	Dip Meter	Base dipped at 6.00m
S2-BH217	1	04/09/2023 14:13	Water Level	16.42	m	0.01	Dip Meter	Base dipped at 29.96m
S2-BH219	2	30/06/2023 10:47	Peak Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH219	2	30/06/2023 10:47	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH219	2	30/06/2023 10:47	Steady Oxygen	10.8	%	1	GA5000 SN:G504748	
S2-BH219	2	30/06/2023 10:47	Peak Oxygen	10.8	%	1	GA5000 SN:G504748	
S2-BH219	2	30/06/2023 10:47	Peak Carbon Dioxide	3.4	%	0.5	GA5000 SN:G504748	
S2-BH219	2	30/06/2023 10:47	Barometric Pressure	985	mbar	5	GA5000 SN:G504748	
S2-BH219	2	30/06/2023 10:47	Steady Carbon Dioxide	3.4	%	0.5	GA5000 SN:G504748	
S2-BH219	2	30/06/2023 10:47	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH219	2	30/06/2023 10:47	Differential Pressure	0.17	mbar	4	GA5000 SN:G504748	
S2-BH219	2	30/06/2023 10:47	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH219	2	30/06/2023 10:47	Carbon Monoxide	3	ppm	2	GA5000 SN:G504748	
S2-BH219	2	30/06/2023 10:52	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 8.66m
S2-BH219	1	30/06/2023 11:03	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH219	1	30/06/2023 11:03	Peak Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH219	1	30/06/2023 11:03	Peak Oxygen	16.8	%	1	GA5000 SN:G504748	
S2-BH219	1	30/06/2023 11:03	Steady Oxygen	16.8	%	1	GA5000 SN:G504748	
S2-BH219	1	30/06/2023 11:03	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH219	1	30/06/2023 11:03	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH219	1	30/06/2023 11:03	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH219	1	30/06/2023 11:03	Differential Pressure	0.19	mbar	4	GA5000 SN:G504748	
S2-BH219	1	30/06/2023 11:03	Steady Carbon Dioxide	3.8	%	0.5	GA5000 SN:G504748	
S2-BH219	1	30/06/2023 11:03	Barometric Pressure	984	mbar	5	GA5000 SN:G504748	
S2-BH219	1	30/06/2023 11:03	Peak Carbon Dioxide	3.8	%	0.5	GA5000 SN:G504748	
S2-BH219	1	30/06/2023 11:06	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 3.68m
S2-BH219	1	28/07/2023 10:21	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH219	1	28/07/2023 10:21	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH219	1	28/07/2023 10:21	Steady Oxygen	4.7	%	1	GA5000 SN:G508511	
S2-BH219	1	28/07/2023 10:21	Peak Oxygen	4.7	%	1	GA5000 SN:G508511	
S2-BH219	1	28/07/2023 10:21	Peak Carbon Dioxide	4.7	%	0.5	GA5000 SN:G508511	
S2-BH219	1	28/07/2023 10:21	Barometric Pressure	980	mbar	5	GA5000 SN:G508511	
S2-BH219	1	28/07/2023 10:21	Steady Carbon Dioxide	4.7	%	0.5	GA5000 SN:G508511	
S2-BH219	1	28/07/2023 10:21	Differential Pressure	0.09	mbar	4	GA5000 SN:G508511	
S2-BH219	1	28/07/2023 10:21	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH219	1	28/07/2023 10:21	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G508511	
S2-BH219	1	28/07/2023 10:21	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH219	1	28/07/2023 10:25	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 3.70m
S2-BH219	2	28/07/2023 10:29	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH219	2	28/07/2023 10:29	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH219	2	28/07/2023 10:29	Steady Oxygen	2	%	1	GA5000 SN:G508511	
S2-BH219	2	28/07/2023 10:29	Peak Oxygen	2	%	1	GA5000 SN:G508511	
S2-BH219	2	28/07/2023 10:29	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH219	2	28/07/2023 10:29	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH219	2	28/07/2023 10:29	Differential Pressure	-0.09	mbar	4	GA5000 SN:G508511	
S2-BH219	2	28/07/2023 10:29	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH219	2	28/07/2023 10:29	Steady Carbon Dioxide	5.6	%	0.5	GA5000 SN:G508511	
S2-BH219	2	28/07/2023 10:29	Peak Carbon Dioxide	5.6	%	0.5	GA5000 SN:G508511	
S2-BH219	2	28/07/2023 10:29	Barometric Pressure	981	mbar	5	GA5000 SN:G508511	
S2-BH219	2	28/07/2023 10:35	Water Level	8.35	m	0.01	Dip Meter	Base dipped at 8.69m
S2-BH219	2	30/08/2023 10:41	Steady Methane	0.2	%	0.5	GA5000 SN:G508511	
S2-BH219	2	30/08/2023 10:41	Peak Methane	0.2	%	0.5	GA5000 SN:G508511	
S2-BH219	2	30/08/2023 10:41	Steady Oxygen	0.2	%	1	GA5000 SN:G508511	
S2-BH219	2	30/08/2023 10:41	Peak Oxygen	0.1	%	1	GA5000 SN:G508511	
S2-BH219	2	30/08/2023 10:41	Barometric Pressure	985	mbar	5	GA5000 SN:G508511	
S2-BH219	2	30/08/2023 10:41	Peak Carbon Dioxide	5.8	%	0.5	GA5000 SN:G508511	
S2-BH219	2	30/08/2023 10:41	Steady Carbon Dioxide	5.7	%	0.5	GA5000 SN:G508511	
S2-BH219	2	30/08/2023 10:41	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH219	2	30/08/2023 10:41	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH219	2	30/08/2023 10:41	Differential Pressure	0.77	mbar	4	GA5000 SN:G508511	
S2-BH219	2	30/08/2023 10:41	Gas Flow Rate	0.4	l/hr	0.3	GA5000 SN:G508511	
S2-BH219	1	30/08/2023 10:50	Water Level		m	0.01	Dip Meter	Base dipped at 3.68m Dry
S2-BH219	2	30/08/2023 10:54	Water Level	8.63	m	0.01	Dip Meter	Base dipped at 8.71m
S2-BH219	1	30/08/2023 10:55	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH219	1	30/08/2023 10:55	Steady Methane	0.2	%	0.5	GA5000 SN:G508511	
S2-BH219	1	30/08/2023 10:55	Peak Methane	0.2	%	0.5	GA5000 SN:G508511	
S2-BH219	1	30/08/2023 10:55	Peak Oxygen	2.8	%	1	GA5000 SN:G508511	
S2-BH219	1	30/08/2023 10:55	Steady Oxygen	3	%	1	GA5000 SN:G508511	
S2-BH219	1	30/08/2023 10:55	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH219	1	30/08/2023 10:55	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH219	1	30/08/2023 10:55	Differential Pressure	-0.05	mbar	4	GA5000 SN:G508511	
S2-BH219	1	30/08/2023 10:55	Steady Carbon Dioxide	5.5	%	0.5	GA5000 SN:G508511	
S2-BH219	1	30/08/2023 10:55	Peak Carbon Dioxide	5.8	%	0.5	GA5000 SN:G508511	
S2-BH219	1	30/08/2023 10:55	Barometric Pressure	983	mbar	5	GA5000 SN:G508511	
S2-BH220	1	28/06/2023 14:58	Barometric Pressure	990	mbar	5	GA5000 SN:G504748	
S2-BH220	1	28/06/2023 14:58	Peak Carbon Dioxide	0.7	%	0.5	GA5000 SN:G504748	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH220	1	28/06/2023 14:58	Steady Carbon Dioxide	0.7	%	0.5	GA5000 SN:G504748	
S2-BH220	1	28/06/2023 14:58	Differential Pressure	0.14	mbar	4	GA5000 SN:G504748	
S2-BH220	1	28/06/2023 14:58	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH220	1	28/06/2023 14:58	Carbon Monoxide	2	ppm	2	GA5000 SN:G504748	
S2-BH220	1	28/06/2023 14:58	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH220	1	28/06/2023 14:58	Steady Oxygen	21.5	%	1	GA5000 SN:G504748	
S2-BH220	1	28/06/2023 14:58	Peak Oxygen	21.5	%	1	GA5000 SN:G504748	
S2-BH220	1	28/06/2023 14:58	Peak Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH220	1	28/06/2023 14:58	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH220	2	28/06/2023 15:05	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH220	2	28/06/2023 15:05	Peak Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH220	2	28/06/2023 15:05	Steady Oxygen	21.3	%	1	GA5000 SN:G504748	
S2-BH220	2	28/06/2023 15:05	Peak Oxygen	21.3	%	1	GA5000 SN:G504748	
S2-BH220	2	28/06/2023 15:05	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH220	2	28/06/2023 15:05	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH220	2	28/06/2023 15:05	Differential Pressure	0.26	mbar	4	GA5000 SN:G504748	
S2-BH220	2	28/06/2023 15:05	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH220	2	28/06/2023 15:05	Steady Carbon Dioxide	0.8	%	0.5	GA5000 SN:G504748	
S2-BH220	2	28/06/2023 15:05	Barometric Pressure	990	mbar	5	GA5000 SN:G504748	
S2-BH220	2	28/06/2023 15:05	Peak Carbon Dioxide	0.8	%	0.5	GA5000 SN:G504748	
S2-BH220	1	28/06/2023 15:13	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 40.30m
S2-BH220	2	28/06/2023 15:17	Water Level	29.7	m	0.01	Dip Meter	Base dipped at 30.20m
S2-BH220	1	28/07/2023 14:22	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:22	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:22	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:22	Peak Oxygen	20.3	%	1	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:22	Steady Oxygen	20.3	%	1	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:22	Barometric Pressure	979	mbar	5	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:22	Carbon Monoxide	3	ppm	2	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:22	Steady Carbon Dioxide	0.5	%	0.5	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:22	Peak Carbon Dioxide	0.5	%	0.5	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:22	Differential Pressure	0.07	mbar	4	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:22	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:22	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH220	2	28/07/2023 14:29	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH220	2	28/07/2023 14:29	Differential Pressure	-0.07	mbar	4	GA5000 SN:G504748	
S2-BH220	2	28/07/2023 14:29	Steady Carbon Dioxide	0.9	%	0.5	GA5000 SN:G504748	
S2-BH220	2	28/07/2023 14:29	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH220	2	28/07/2023 14:29	Barometric Pressure	979	mbar	5	GA5000 SN:G504748	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH220	2	28/07/2023 14:29	Peak Carbon Dioxide	0.9	%	0.5	GA5000 SN:G504748	
S2-BH220	2	28/07/2023 14:29	Steady Oxygen	20.5	%	1	GA5000 SN:G504748	
S2-BH220	2	28/07/2023 14:29	Peak Oxygen	20.5	%	1	GA5000 SN:G504748	
S2-BH220	2	28/07/2023 14:29	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH220	2	28/07/2023 14:29	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH220	2	28/07/2023 14:29	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:31	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 40.10
S2-BH220	2	28/07/2023 14:32	Water Level	29.8	m	0.01	Dip Meter	Base dipped at 30.40
S2-BH220	1	04/09/2023 09:50	Steady Oxygen	21.2	%	1	GA5000 SN:G508511	
S2-BH220	1	04/09/2023 09:50	Peak Oxygen	21.2	%	1	GA5000 SN:G508511	
S2-BH220	1	04/09/2023 09:50	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH220	1	04/09/2023 09:50	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH220	1	04/09/2023 09:50	Peak Carbon Dioxide	0.5	%	0.5	GA5000 SN:G508511	
S2-BH220	1	04/09/2023 09:50	Barometric Pressure	989	mbar	5	GA5000 SN:G508511	
S2-BH220	1	04/09/2023 09:50	Carbon Monoxide	2	ppm	2	GA5000 SN:G508511	
S2-BH220	1	04/09/2023 09:50	Steady Carbon Dioxide	0.4	%	0.5	GA5000 SN:G508511	
S2-BH220	1	04/09/2023 09:50	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH220	1	04/09/2023 09:50	Differential Pressure	0.02	mbar	4	GA5000 SN:G508511	
S2-BH220	1	04/09/2023 09:50	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G508511	
S2-BH220	1	04/09/2023 09:52	Water Level		m	0.01	Dip Meter	Base dipped at 40.12m Dry.
S2-BH220	2	04/09/2023 09:56	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH220	2	04/09/2023 09:56	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH220	2	04/09/2023 09:56	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH220	2	04/09/2023 09:56	Steady Oxygen	19.8	%	1	GA5000 SN:G508511	
S2-BH220	2	04/09/2023 09:56	Peak Oxygen	19.8	%	1	GA5000 SN:G508511	
S2-BH220	2	04/09/2023 09:56	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH220	2	04/09/2023 09:56	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH220	2	04/09/2023 09:56	Differential Pressure	0.1	mbar	4	GA5000 SN:G508511	
S2-BH220	2	04/09/2023 09:56	Steady Carbon Dioxide	0.7	%	0.5	GA5000 SN:G508511	
S2-BH220	2	04/09/2023 09:56	Peak Carbon Dioxide	0.8	%	0.5	GA5000 SN:G508511	
S2-BH220	2	04/09/2023 09:56	Barometric Pressure	989	mbar	5	GA5000 SN:G508511	
S2-BH220	2	04/09/2023 09:58	Water Level	29.9	m	0.01	Dip Meter	Base dipped at 30.26m
S2-BH221	1	30/06/2023 11:34	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH221	1	30/06/2023 11:34	Peak Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH221	1	30/06/2023 11:34	Peak Oxygen	6	%	1	GA5000 SN:G504748	
S2-BH221	1	30/06/2023 11:34	Steady Oxygen	6	%	1	GA5000 SN:G504748	
S2-BH221	1	30/06/2023 11:34	Barometric Pressure	983	mbar	5	GA5000 SN:G504748	
S2-BH221	1	30/06/2023 11:34	Peak Carbon Dioxide	19.2	%	0.5	GA5000 SN:G504748	
S2-BH221	1	30/06/2023 11:34	Steady Carbon Dioxide	19.2	%	0.5	GA5000 SN:G504748	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH221	1	30/06/2023 11:34	Differential Pressure	0.03	mbar	4	GA5000 SN:G504748	
S2-BH221	1	30/06/2023 11:34	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH221	1	30/06/2023 11:34	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH221	1	30/06/2023 11:34	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH221	1	30/06/2023 11:39	Water Level		m	0.01	Dip Meter	Damp at base. Base dipped at 9.74m
S2-BH221	1	02/08/2023 11:13	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH221	1	02/08/2023 11:13	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH221	1	02/08/2023 11:13	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH221	1	02/08/2023 11:13	Steady Oxygen	4.4	%	1	GA5000 SN:G504748	
S2-BH221	1	02/08/2023 11:13	Peak Oxygen	4.4	%	1	GA5000 SN:G504748	
S2-BH221	1	02/08/2023 11:13	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH221	1	02/08/2023 11:13	Differential Pressure	-0.07	mbar	4	GA5000 SN:G504748	
S2-BH221	1	02/08/2023 11:13	Steady Carbon Dioxide	19.4	%	0.5	GA5000 SN:G504748	
S2-BH221	1	02/08/2023 11:13	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH221	1	02/08/2023 11:13	Barometric Pressure	956	mbar	5	GA5000 SN:G504748	
S2-BH221	1	02/08/2023 11:13	Peak Carbon Dioxide	19.5	%	0.5	GA5000 SN:G504748	
S2-BH221	1	02/08/2023 11:22	Water Level	9.32	m	0.01	Dip Meter	Base dipped at 9.82m
S2-BH221	1	29/08/2023 10:27	Steady Oxygen	5.2	%	1	GA5000 SN:G508511	
S2-BH221	1	29/08/2023 10:27	Peak Oxygen	5.2	%	1	GA5000 SN:G508511	
S2-BH221	1	29/08/2023 10:27	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH221	1	29/08/2023 10:27	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH221	1	29/08/2023 10:27	Peak Carbon Dioxide	18.9	%	0.5	GA5000 SN:G508511	
S2-BH221	1	29/08/2023 10:27	Barometric Pressure	989	mbar	5	GA5000 SN:G508511	
S2-BH221	1	29/08/2023 10:27	Steady Carbon Dioxide	18.9	%	0.5	GA5000 SN:G508511	
S2-BH221	1	29/08/2023 10:27	Differential Pressure	0.02	mbar	4	GA5000 SN:G508511	
S2-BH221	1	29/08/2023 10:27	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH221	1	29/08/2023 10:27	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH221	1	29/08/2023 10:27	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH221	1	29/08/2023 10:36	Water Level	9.21	m	0.01	Dip Meter	Base dipped at 9.79m
S2-BH222	1	04/07/2023 14:30	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH222	1	04/07/2023 14:30	Peak Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH222	1	04/07/2023 14:30	Peak Oxygen	20.5	%	1	GA5000 SN:G508511	
S2-BH222	1	04/07/2023 14:30	Steady Oxygen	20.5	%	1	GA5000 SN:G508511	
S2-BH222	1	04/07/2023 14:30	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH222	1	04/07/2023 14:30	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH222	1	04/07/2023 14:30	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH222	1	04/07/2023 14:30	Differential Pressure	0.24	mbar	4	GA5000 SN:G508511	
S2-BH222	1	04/07/2023 14:30	Steady Carbon Dioxide	0.5	%	0.5	GA5000 SN:G508511	
S2-BH222	1	04/07/2023 14:30	Barometric Pressure	971	mbar	5	GA5000 SN:G508511	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH222	1	04/07/2023 14:30	Peak Carbon Dioxide	0.5	%	0.5	GA5000 SN:G508511	
S2-BH222	1	04/07/2023 14:35	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 3.86m
S2-BH222	2	04/07/2023 14:44	Steady Methane	0.4	%	0.5	GA5000 SN:G508511	
S2-BH222	2	04/07/2023 14:44	Peak Methane	0.4	%	0.5	GA5000 SN:G508511	
S2-BH222	2	04/07/2023 14:44	Steady Oxygen	13.5	%	1	GA5000 SN:G508511	
S2-BH222	2	04/07/2023 14:44	Peak Oxygen	13.5	%	1	GA5000 SN:G508511	
S2-BH222	2	04/07/2023 14:44	Barometric Pressure	980	mbar	5	GA5000 SN:G508511	
S2-BH222	2	04/07/2023 14:44	Peak Carbon Dioxide	2.8	%	0.5	GA5000 SN:G508511	
S2-BH222	2	04/07/2023 14:44	Steady Carbon Dioxide	2.8	%	0.5	GA5000 SN:G508511	
S2-BH222	2	04/07/2023 14:44	Differential Pressure	0.1	mbar	4	GA5000 SN:G508511	
S2-BH222	2	04/07/2023 14:44	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH222	2	04/07/2023 14:44	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G508511	
S2-BH222	2	04/07/2023 14:44	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511	
S2-BH222	2	04/07/2023 14:50	Water Level		m	0.01	Dip Meter	Borehol dry. Base dipped at 24.60m
S2-BH222	1	01/08/2023 13:07	Peak Methane	0.5	%	0.5	GA5000 SN:G504748	
S2-BH222	1	01/08/2023 13:07	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH222	1	01/08/2023 13:07	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH222	1	01/08/2023 13:07	Peak Oxygen	12.2	%	1	GA5000 SN:G504748	
S2-BH222	1	01/08/2023 13:07	Steady Oxygen	12.3	%	1	GA5000 SN:G504748	
S2-BH222	1	01/08/2023 13:07	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH222	1	01/08/2023 13:07	Gas Flow Rate	-0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH222	1	01/08/2023 13:07	Differential Pressure	0.17	mbar	4	GA5000 SN:G504748	
S2-BH222	1	01/08/2023 13:07	Peak Carbon Dioxide	2	%	0.5	GA5000 SN:G504748	
S2-BH222	1	01/08/2023 13:07	Steady Carbon Dioxide	1.9	%	0.5	GA5000 SN:G504748	
S2-BH222	1	01/08/2023 13:07	Barometric Pressure	972	mbar	5	GA5000 SN:G504748	
S2-BH222	1	01/08/2023 14:12	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 3.90m
S2-BH222	2	01/08/2023 14:17	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH222	2	01/08/2023 14:17	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH222	2	01/08/2023 14:17	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH222	2	01/08/2023 14:17	Steady Oxygen	7.1	%	1	GA5000 SN:G504748	
S2-BH222	2	01/08/2023 14:17	Peak Oxygen	7.1	%	1	GA5000 SN:G504748	
S2-BH222	2	01/08/2023 14:17	Barometric Pressure	972	mbar	5	GA5000 SN:G504748	
S2-BH222	2	01/08/2023 14:17	Steady Carbon Dioxide	3.9	%	0.5	GA5000 SN:G504748	
S2-BH222	2	01/08/2023 14:17	Peak Carbon Dioxide	3.9	%	0.5	GA5000 SN:G504748	
S2-BH222	2	01/08/2023 14:17	Differential Pressure	0.05	mbar	4	GA5000 SN:G504748	
S2-BH222	2	01/08/2023 14:17	Gas Flow Rate	-0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH222	2	01/08/2023 14:17	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH222	2	01/08/2023 14:24	Water Level	21.45	m	0.01	Dip Meter	Base dipped at 24.71m
S2-BH222	1	31/08/2023 13:41	Steady Methane	0.2	%	0.5	GA5000 SN:G508511	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH222	1	31/08/2023 13:41	Peak Methane	0.2	%	0.5	GA5000 SN:G508511	
S2-BH222	1	31/08/2023 13:41	Peak Oxygen	3.6	%	1	GA5000 SN:G508511	
S2-BH222	1	31/08/2023 13:41	Steady Oxygen	3.6	%	1	GA5000 SN:G508511	
S2-BH222	1	31/08/2023 13:41	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH222	1	31/08/2023 13:41	Gas Flow Rate	0.6	l/hr	0.3	GA5000 SN:G508511	
S2-BH222	1	31/08/2023 13:41	Differential Pressure	0	mbar	4	GA5000 SN:G508511	
S2-BH222	1	31/08/2023 13:41	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH222	1	31/08/2023 13:41	Steady Carbon Dioxide	0.2	%	0.5	GA5000 SN:G508511	
S2-BH222	1	31/08/2023 13:41	Barometric Pressure	977	mbar	5	GA5000 SN:G508511	
S2-BH222	1	31/08/2023 13:41	Peak Carbon Dioxide	2.2	%	0.5	GA5000 SN:G508511	
S2-BH222	2	31/08/2023 13:46	Barometric Pressure	977	mbar	5	GA5000 SN:G508511	
S2-BH222	2	31/08/2023 13:46	Steady Carbon Dioxide	4.1	%	0.5	GA5000 SN:G508511	
S2-BH222	2	31/08/2023 13:46	Peak Carbon Dioxide	4.1	%	0.5	GA5000 SN:G508511	
S2-BH222	2	31/08/2023 13:46	Differential Pressure	0.03	mbar	4	GA5000 SN:G508511	
S2-BH222	2	31/08/2023 13:46	Gas Flow Rate	0.5	l/hr	0.3	GA5000 SN:G508511	
S2-BH222	2	31/08/2023 13:46	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH222	2	31/08/2023 13:46	Steady Oxygen	0.4	%	1	GA5000 SN:G508511	
S2-BH222	2	31/08/2023 13:46	Peak Oxygen	0.4	%	1	GA5000 SN:G508511	
S2-BH222	2	31/08/2023 13:46	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH222	2	31/08/2023 13:46	Steady Methane	0.4	%	0.5	GA5000 SN:G508511	
S2-BH222	2	31/08/2023 13:46	Peak Methane	0.4	%	0.5	GA5000 SN:G508511	
S2-BH222	1	31/08/2023 13:48	Water Level		m	0.01	Dip Meter	Base dipped at 3.86m Dry
S2-BH222	2	31/08/2023 13:50	Water Level	23.59	m	0.01	Dip Meter	Base dipped at 24.56m
S2-BH223	1	04/07/2023 16:05	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH223	1	04/07/2023 16:05	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH223	1	04/07/2023 16:05	Peak Oxygen	3.5	%	1	GA5000 SN:G508511	
S2-BH223	1	04/07/2023 16:05	Steady Oxygen	3.5	%	1	GA5000 SN:G508511	
S2-BH223	1	04/07/2023 16:05	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G508511	
S2-BH223	1	04/07/2023 16:05	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH223	1	04/07/2023 16:05	Differential Pressure	0.16	mbar	4	GA5000 SN:G508511	
S2-BH223	1	04/07/2023 16:05	Peak Carbon Dioxide	25.4	%	0.5	GA5000 SN:G508511	
S2-BH223	1	04/07/2023 16:05	Steady Carbon Dioxide	25.4	%	0.5	GA5000 SN:G508511	
S2-BH223	1	04/07/2023 16:05	Carbon Monoxide	3	ppm	2	GA5000 SN:G508511	
S2-BH223	1	04/07/2023 16:05	Barometric Pressure	982	mbar	5	GA5000 SN:G508511	
S2-BH223	1	04/07/2023 16:09	Water Level	6.83	m	0.01	Dip Meter	Base dipped at 7.93m
S2-BH223	1	03/08/2023 10:59	Steady Oxygen	3.7	%	1	GA5000 SN:G504748	
S2-BH223	1	03/08/2023 10:59	Peak Oxygen	3.7	%	1	GA5000 SN:G504748	
S2-BH223	1	03/08/2023 10:59	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH223	1	03/08/2023 10:59	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	

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Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH223	1	03/08/2023 10:59	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH223	1	03/08/2023 10:59	Barometric Pressure	978	mbar	5	GA5000 SN:G504748	
S2-BH223	1	03/08/2023 10:59	Peak Carbon Dioxide	18.6	%	0.5	GA5000 SN:G504748	
S2-BH223	1	03/08/2023 10:59	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH223	1	03/08/2023 10:59	Steady Carbon Dioxide	18.6	%	0.5	GA5000 SN:G504748	
S2-BH223	1	03/08/2023 10:59	Differential Pressure	-0.03	mbar	4	GA5000 SN:G504748	
S2-BH223	1	03/08/2023 10:59	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH223	1	03/08/2023 11:04	Water Level	6.59	m	0.01	Dip Meter	Base dipped at 9.58m
S2-BH223	1	31/08/2023 10:05	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH223	1	31/08/2023 10:05	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH223	1	31/08/2023 10:05	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH223	1	31/08/2023 10:05	Peak Oxygen	3.8	%	1	GA5000 SN:G508511	
S2-BH223	1	31/08/2023 10:05	Steady Oxygen	3.8	%	1	GA5000 SN:G508511	
S2-BH223	1	31/08/2023 10:05	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH223	1	31/08/2023 10:05	Differential Pressure	0.02	mbar	4	GA5000 SN:G508511	
S2-BH223	1	31/08/2023 10:05	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511	
S2-BH223	1	31/08/2023 10:05	Steady Carbon Dioxide	24.4	%	0.5	GA5000 SN:G508511	
S2-BH223	1	31/08/2023 10:05	Peak Carbon Dioxide	24.4	%	0.5	GA5000 SN:G508511	
S2-BH223	1	31/08/2023 10:05	Barometric Pressure	985	mbar	5	GA5000 SN:G508511	
S2-BH223	1	31/08/2023 10:08	Water Level	7.11	m	0.01	Dip Meter	Base dipped at 8.00m
S2-BH224	1	29/06/2023 16:12	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH224	1	29/06/2023 16:12	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH224	1	29/06/2023 16:12	Peak Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH224	1	29/06/2023 16:12	Steady Oxygen	21	%	1	GA5000 SN:G504748	
S2-BH224	1	29/06/2023 16:12	Peak Oxygen	20.9	%	1	GA5000 SN:G504748	
S2-BH224	1	29/06/2023 16:12	Barometric Pressure	991	mbar	5	GA5000 SN:G504748	
S2-BH224	1	29/06/2023 16:12	Peak Carbon Dioxide	0.6	%	0.5	GA5000 SN:G504748	
S2-BH224	1	29/06/2023 16:12	Steady Carbon Dioxide	0.5	%	0.5	GA5000 SN:G504748	
S2-BH224	1	29/06/2023 16:12	Differential Pressure	5.5	mbar	4	GA5000 SN:G504748	
S2-BH224	1	29/06/2023 16:12	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH224	1	29/06/2023 16:12	Carbon Monoxide	1	ppm	2	GA5000 SN:G504748	
S2-BH224	1	29/06/2023 16:17	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 9.47m
S2-BH224	1	28/07/2023 15:18	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH224	1	28/07/2023 15:18	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH224	1	28/07/2023 15:18	Peak Oxygen	20.9	%	1	GA5000 SN:G504748	
S2-BH224	1	28/07/2023 15:18	Steady Oxygen	20.9	%	1	GA5000 SN:G504748	
S2-BH224	1	28/07/2023 15:18	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH224	1	28/07/2023 15:18	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH224	1	28/07/2023 15:18	Differential Pressure	0	mbar	4	GA5000 SN:G504748	

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Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH224	1	28/07/2023 15:18	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH224	1	28/07/2023 15:18	Peak Carbon Dioxide	0.7	%	0.5	GA5000 SN:G504748	
S2-BH224	1	28/07/2023 15:18	Steady Carbon Dioxide	0.7	%	0.5	GA5000 SN:G504748	
S2-BH224	1	28/07/2023 15:18	Barometric Pressure	978	mbar	5	GA5000 SN:G504748	
S2-BH224	1	28/07/2023 15:23	Water Level	9.1	m	0.01	Dip Meter	Base dipped at 9.90m
S2-BH224	1	25/08/2023 14:54	Steady Oxygen	20.9	%	1	GA5000 SN:G504748	
S2-BH224	1	25/08/2023 14:54	Peak Oxygen	20.9	%	1	GA5000 SN:G504748	
S2-BH224	1	25/08/2023 14:54	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH224	1	25/08/2023 14:54	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH224	1	25/08/2023 14:54	Peak Carbon Dioxide	0.1	%	0.5	GA5000 SN:G504748	
S2-BH224	1	25/08/2023 14:54	Barometric Pressure	982	mbar	5	GA5000 SN:G504748	
S2-BH224	1	25/08/2023 14:54	Steady Carbon Dioxide	0.1	%	0.5	GA5000 SN:G504748	
S2-BH224	1	25/08/2023 14:54	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH224	1	25/08/2023 14:54	Differential Pressure	3.66	mbar	4	GA5000 SN:G504748	
S2-BH224	1	25/08/2023 14:54	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH224	1	25/08/2023 14:54	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH224	1	25/08/2023 14:56	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 9.83m
S2-BH225	1	04/07/2023 15:18	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH225	1	04/07/2023 15:18	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH225	1	04/07/2023 15:18	Peak Oxygen	19.6	%	1	GA5000 SN:G508511	
S2-BH225	1	04/07/2023 15:18	Steady Oxygen	21.6	%	1	GA5000 SN:G508511	
S2-BH225	1	04/07/2023 15:18	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH225	1	04/07/2023 15:18	Differential Pressure	0.16	mbar	4	GA5000 SN:G508511	
S2-BH225	1	04/07/2023 15:18	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH225	1	04/07/2023 15:18	Peak Carbon Dioxide	0.2	%	0.5	GA5000 SN:G508511	
S2-BH225	1	04/07/2023 15:18	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH225	1	04/07/2023 15:18	Steady Carbon Dioxide	0.2	%	0.5	GA5000 SN:G508511	
S2-BH225	1	04/07/2023 15:18	Barometric Pressure	979	mbar	5	GA5000 SN:G508511	
S2-BH225	1	04/07/2023 15:23	Water Level	3.98	m	0.01	Dip Meter	Base dipped at 5.89m
S2-BH225	1	02/08/2023 13:32	Steady Oxygen	0	%	1	GA5000 SN:G504748	
S2-BH225	1	02/08/2023 13:32	Peak Oxygen	0	%	1	GA5000 SN:G504748	
S2-BH225	1	02/08/2023 13:32	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH225	1	02/08/2023 13:32	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH225	1	02/08/2023 13:32	Barometric Pressure	954	mbar	5	GA5000 SN:G504748	
S2-BH225	1	02/08/2023 13:32	Peak Carbon Dioxide	6.6	%	0.5	GA5000 SN:G504748	
S2-BH225	1	02/08/2023 13:32	Steady Carbon Dioxide	6.6	%	0.5	GA5000 SN:G504748	
S2-BH225	1	02/08/2023 13:32	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH225	1	02/08/2023 13:32	Differential Pressure	8.04	mbar	4	GA5000 SN:G504748	
S2-BH225	1	02/08/2023 13:32	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	

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Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH225	1	02/08/2023 13:32	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH225	1	02/08/2023 13:37	Water Level	3.83	m	0.01	Dip Meter	Base dipped at 5.93m
S2-BH226	1	05/07/2023 11:18	Steady Oxygen	5.2	%	1	GA5000 SN:G508511	
S2-BH226	1	05/07/2023 11:18	Peak Oxygen	5.2	%	1	GA5000 SN:G508511	
S2-BH226	1	05/07/2023 11:18	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH226	1	05/07/2023 11:18	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH226	1	05/07/2023 11:18	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH226	1	05/07/2023 11:18	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH226	1	05/07/2023 11:18	Differential Pressure	0.03	mbar	4	GA5000 SN:G508511	
S2-BH226	1	05/07/2023 11:18	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511	
S2-BH226	1	05/07/2023 11:18	Peak Carbon Dioxide	21.1	%	0.5	GA5000 SN:G508511	
S2-BH226	1	05/07/2023 11:18	Steady Carbon Dioxide	21.1	%	0.5	GA5000 SN:G508511	
S2-BH226	1	05/07/2023 11:18	Barometric Pressure	985	mbar	5	GA5000 SN:G508511	
S2-BH226	1	05/07/2023 11:25	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 9.79m
S2-BH226	1	01/08/2023 15:26	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH226	1	01/08/2023 15:26	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH226	1	01/08/2023 15:26	Peak Oxygen	4.5	%	1	GA5000 SN:G504748	
S2-BH226	1	01/08/2023 15:26	Steady Oxygen	4.5	%	1	GA5000 SN:G504748	
S2-BH226	1	01/08/2023 15:26	Peak Carbon Dioxide	18.4	%	0.5	GA5000 SN:G504748	
S2-BH226	1	01/08/2023 15:26	Barometric Pressure	974	mbar	5	GA5000 SN:G504748	
S2-BH226	1	01/08/2023 15:26	Steady Carbon Dioxide	18.4	%	0.5	GA5000 SN:G504748	
S2-BH226	1	01/08/2023 15:26	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH226	1	01/08/2023 15:26	Differential Pressure	-1.07	mbar	4	GA5000 SN:G504748	
S2-BH226	1	01/08/2023 15:26	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH226	1	01/08/2023 15:26	Carbon Monoxide	1	ppm	2	GA5000 SN:G504748	
S2-BH226	1	01/08/2023 15:32	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 9.63m
S2-BH226	1	31/08/2023 10:00	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH226	1	31/08/2023 10:00	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH226	1	31/08/2023 10:00	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH226	1	31/08/2023 10:00	Steady Oxygen	5.4	%	1	GA5000 SN:G508511	
S2-BH226	1	31/08/2023 10:00	Peak Oxygen	5.4	%	1	GA5000 SN:G508511	
S2-BH226	1	31/08/2023 10:00	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511	
S2-BH226	1	31/08/2023 10:00	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH226	1	31/08/2023 10:00	Differential Pressure	0.07	mbar	4	GA5000 SN:G508511	
S2-BH226	1	31/08/2023 10:00	Steady Carbon Dioxide	19.3	%	0.5	GA5000 SN:G508511	
S2-BH226	1	31/08/2023 10:00	Barometric Pressure	989	mbar	5	GA5000 SN:G508511	
S2-BH226	1	31/08/2023 10:00	Peak Carbon Dioxide	19.3	%	0.5	GA5000 SN:G508511	
S2-BH226	1	31/08/2023 10:04	Water Level		m	0.01	Dip Meter	Base dipped at 9.69m Dry.
S2-BH227	2	29/06/2023 15:07	Water Level	11.09	m	0.01	Dip Meter	Base dipped at 14.35m

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH227	2	29/06/2023 15:10	Steady Methane	0	%	0.5	GA5000	
S2-BH227	2	29/06/2023 15:10	Hydrogen Sulphide	1	ppm	1.5	GA5000	
S2-BH227	2	29/06/2023 15:10	Peak Methane	0	%	0.5	GA5000	
S2-BH227	2	29/06/2023 15:10	Barometric Pressure	989	mbar	5	GA5000	
S2-BH227	2	29/06/2023 15:10	Steady Carbon Dioxide	5.6	%	0.5	GA5000	
S2-BH227	2	29/06/2023 15:10	Differential Pressure	-0.26	mbar	4	GA5000	
S2-BH227	2	29/06/2023 15:10	Gas Flow Rate	0	l/hr	0.3	GA5000	
S2-BH227	2	29/06/2023 15:10	Carbon Monoxide	3	ppm	2	GA5000	
S2-BH227	2	29/06/2023 16:01	Peak Carbon Dioxide	5.6	%	0.5	GA5000	
S2-BH227	2	29/06/2023 16:01	Steady Oxygen	18.2	%	1	GA5000	
S2-BH227	2	29/06/2023 16:01	Peak Oxygen	18.2	%	1	GA5000	
S2-BH227	1	29/06/2023 16:17	Steady Oxygen	19.9	%	1	GA5000	
S2-BH227	1	29/06/2023 16:17	Peak Oxygen	19.1	%	1	GA5000	
S2-BH227	1	29/06/2023 16:17	Peak Methane	0	%	0.5	GA5000	
S2-BH227	1	29/06/2023 16:17	Steady Methane	0	%	0.5	GA5000	
S2-BH227	1	29/06/2023 16:17	Peak Carbon Dioxide	4.4	%	0.5	GA5000	
S2-BH227	1	29/06/2023 16:17	Barometric Pressure	989	mbar	5	GA5000	
S2-BH227	1	29/06/2023 16:17	Steady Carbon Dioxide	3.1	%	0.5	GA5000	
S2-BH227	1	29/06/2023 16:17	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH227	1	29/06/2023 16:17	Gas Flow Rate	0	l/hr	0.3	GA5000	
S2-BH227	1	29/06/2023 16:17	Differential Pressure	0.09	mbar	4	GA5000	
S2-BH227	1	29/06/2023 16:17	Hydrogen Sulphide	0	ppm	1.5	GA5000	
S2-BH227	1	29/06/2023 16:18	Water Level	5.07	m	0.01	Dip Meter	Base dipped at 5.37m.
S2-BH227	1	26/07/2023 11:36	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH227	1	26/07/2023 11:36	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH227	1	26/07/2023 11:36	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH227	1	26/07/2023 11:36	Steady Oxygen	14.8	%	1	GA5000 SN:G504748	
S2-BH227	1	26/07/2023 11:36	Peak Oxygen	14.8	%	1	GA5000 SN:G504748	
S2-BH227	1	26/07/2023 11:36	Differential Pressure	0.14	mbar	4	GA5000 SN:G504748	
S2-BH227	1	26/07/2023 11:36	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH227	1	26/07/2023 11:36	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH227	1	26/07/2023 11:36	Steady Carbon Dioxide	3.6	%	0.5	GA5000 SN:G504748	
S2-BH227	1	26/07/2023 11:36	Barometric Pressure	981	mbar	5	GA5000 SN:G504748	
S2-BH227	1	26/07/2023 11:36	Peak Carbon Dioxide	3.6	%	0.5	GA5000 SN:G504748	
S2-BH227	2	26/07/2023 11:45	Peak Carbon Dioxide	5	%	0.5	GA5000 SN:G504748	
S2-BH227	2	26/07/2023 11:45	Barometric Pressure	981	mbar	5	GA5000 SN:G504748	
S2-BH227	2	26/07/2023 11:45	Carbon Monoxide	1	ppm	2	GA5000 SN:G504748	
S2-BH227	2	26/07/2023 11:45	Steady Carbon Dioxide	5	%	0.5	GA5000 SN:G504748	
S2-BH227	2	26/07/2023 11:45	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH227	2	26/07/2023 11:45	Differential Pressure	0.03	mbar	4	GA5000 SN:G504748	
S2-BH227	2	26/07/2023 11:45	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH227	2	26/07/2023 11:45	Peak Oxygen	6.3	%	1	GA5000 SN:G504748	
S2-BH227	2	26/07/2023 11:45	Steady Oxygen	6.3	%	1	GA5000 SN:G504748	
S2-BH227	2	26/07/2023 11:45	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH227	2	26/07/2023 11:45	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH227	1	26/07/2023 11:48	Water Level	3.34	m	0.01	Dip Meter	Base dipped at 5.53m
S2-BH227	2	26/07/2023 11:51	Water Level	10.67	m	0.01	Dip Meter	Base dipped at 14.50m
S2-BH227	2	23/08/2023 10:45	Water Level	13.69	m	0.01	Dip Meter	Base dipped at 14.47m
S2-BH227	1	23/08/2023 11:30	Water Level	5.02	m	0.01	Dip Meter	Base dipped at 5.49m
S2-BH227	2	23/08/2023 11:39	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH227	2	23/08/2023 11:39	Peak Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH227	2	23/08/2023 11:39	Steady Oxygen	1.8	%	1	GA5000 SN:G508511	
S2-BH227	2	23/08/2023 11:39	Peak Oxygen	0.1	%	1	GA5000 SN:G508511	
S2-BH227	2	23/08/2023 11:39	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH227	2	23/08/2023 11:39	Differential Pressure	0	mbar	4	GA5000 SN:G508511	
S2-BH227	2	23/08/2023 11:39	Gas Flow Rate	-0.1	l/hr	0.3	GA5000 SN:G508511	
S2-BH227	2	23/08/2023 11:39	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511	
S2-BH227	2	23/08/2023 11:39	Steady Carbon Dioxide	5.1	%	0.5	GA5000 SN:G508511	
S2-BH227	2	23/08/2023 11:39	Barometric Pressure	989	mbar	5	GA5000 SN:G508511	
S2-BH227	2	23/08/2023 11:39	Peak Carbon Dioxide	5.2	%	0.5	GA5000 SN:G508511	
S2-BH227	1	23/08/2023 11:57	Barometric Pressure	989	mbar	5	GA5000 SN:G508511	
S2-BH227	1	23/08/2023 11:57	Steady Carbon Dioxide	7	%	0.5	GA5000 SN:G508511	
S2-BH227	1	23/08/2023 11:57	Peak Carbon Dioxide	7.1	%	0.5	GA5000 SN:G508511	
S2-BH227	1	23/08/2023 11:57	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH227	1	23/08/2023 11:57	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH227	1	23/08/2023 11:57	Differential Pressure	0.23	mbar	4	GA5000 SN:G508511	
S2-BH227	1	23/08/2023 11:57	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH227	1	23/08/2023 11:57	Peak Oxygen	9.5	%	1	GA5000 SN:G508511	
S2-BH227	1	23/08/2023 11:57	Steady Oxygen	9.5	%	1	GA5000 SN:G508511	
S2-BH227	1	23/08/2023 11:57	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH227	1	23/08/2023 11:57	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH228	1	29/06/2023 15:00	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH228	1	29/06/2023 15:00	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH228	1	29/06/2023 15:00	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH228	1	29/06/2023 15:00	Steady Oxygen	21.3	%	1	GA5000 SN:G504748	
S2-BH228	1	29/06/2023 15:00	Peak Oxygen	20.1	%	1	GA5000 SN:G504748	
S2-BH228	1	29/06/2023 15:00	Differential Pressure	0.02	mbar	4	GA5000 SN:G504748	
S2-BH228	1	29/06/2023 15:00	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH228	1	29/06/2023 15:00	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH228	1	29/06/2023 15:00	Peak Carbon Dioxide	0.1	%	0.5	GA5000 SN:G504748	
S2-BH228	1	29/06/2023 15:00	Steady Carbon Dioxide	0.1	%	0.5	GA5000 SN:G504748	
S2-BH228	1	29/06/2023 15:00	Barometric Pressure	987	mbar	5	GA5000 SN:G504748	
S2-BH228	1	29/06/2023 15:11	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 36.81m
S2-BH228	1	26/07/2023 12:12	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH228	1	26/07/2023 12:12	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH228	1	26/07/2023 12:12	Steady Oxygen	20.4	%	1	GA5000 SN:G508511	
S2-BH228	1	26/07/2023 12:12	Peak Oxygen	20.4	%	1	GA5000 SN:G508511	
S2-BH228	1	26/07/2023 12:12	Barometric Pressure	982	mbar	5	GA5000 SN:G508511	
S2-BH228	1	26/07/2023 12:12	Peak Carbon Dioxide	1.3	%	0.5	GA5000 SN:G508511	
S2-BH228	1	26/07/2023 12:12	Steady Carbon Dioxide	1.3	%	0.5	GA5000 SN:G508511	
S2-BH228	1	26/07/2023 12:12	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH228	1	26/07/2023 12:12	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH228	1	26/07/2023 12:12	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH228	1	26/07/2023 12:12	Differential Pressure	0.16	mbar	4	GA5000 SN:G508511	
S2-BH228	1	26/07/2023 12:20	Water Level		m	0.01	Dip Meter	Borehole damp at base. Base dipped at 36.61m
S2-BH228	1	23/08/2023 13:51	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH228	1	23/08/2023 13:51	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH228	1	23/08/2023 13:51	Peak Oxygen	20.3	%	1	GA5000 SN:G508511	
S2-BH228	1	23/08/2023 13:51	Peak Oxygen	20.3	%	1	GA5000 SN:G508511	
S2-BH228	1	23/08/2023 13:51	Differential Pressure	0.06	mbar	4	GA5000 SN:G508511	
S2-BH228	1	23/08/2023 13:51	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH228	1	23/08/2023 13:51	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH228	1	23/08/2023 13:51	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH228	1	23/08/2023 13:51	Steady Carbon Dioxide	1.1	%	0.5	GA5000 SN:G508511	
S2-BH228	1	23/08/2023 13:51	Peak Carbon Dioxide	1.1	%	0.5	GA5000 SN:G508511	
S2-BH228	1	23/08/2023 13:51	Barometric Pressure	988	mbar	5	GA5000 SN:G508511	
S2-BH228	1	23/08/2023 14:04	Water Level		m	0.01	Dip Meter	Base dipped at 36.59m Damp at base.
S2-BH229	2	04/07/2023 13:32	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH229	2	04/07/2023 13:32	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH229	2	04/07/2023 13:32	Peak Oxygen	13.6	%	1	GA5000 SN:G508511	
S2-BH229	2	04/07/2023 13:32	Steady Oxygen	13.6	%	1	GA5000 SN:G508511	
S2-BH229	2	04/07/2023 13:32	Peak Carbon Dioxide	8.6	%	0.5	GA5000 SN:G508511	
S2-BH229	2	04/07/2023 13:32	Barometric Pressure	982	mbar	5	GA5000 SN:G508511	
S2-BH229	2	04/07/2023 13:32	Steady Carbon Dioxide	8.6	%	0.5	GA5000 SN:G508511	
S2-BH229	2	04/07/2023 13:32	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH229	2	04/07/2023 13:32	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G508511	
S2-BH229	2	04/07/2023 13:32	Differential Pressure	0.16	mbar	4	GA5000 SN:G508511	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH229	2	04/07/2023 13:32	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH229	2	04/07/2023 13:37	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 2.80m
S2-BH229	1	04/07/2023 13:44	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH229	1	04/07/2023 13:44	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH229	1	04/07/2023 13:44	Peak Oxygen	19.3	%	1	GA5000 SN:G508511	
S2-BH229	1	04/07/2023 13:44	Steady Oxygen	21.1	%	1	GA5000 SN:G508511	
S2-BH229	1	04/07/2023 13:44	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH229	1	04/07/2023 13:44	Differential Pressure	0.03	mbar	4	GA5000 SN:G508511	
S2-BH229	1	04/07/2023 13:44	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH229	1	04/07/2023 13:44	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH229	1	04/07/2023 13:44	Steady Carbon Dioxide	0.5	%	0.5	GA5000 SN:G508511	
S2-BH229	1	04/07/2023 13:44	Peak Carbon Dioxide	0.8	%	0.5	GA5000 SN:G508511	
S2-BH229	1	04/07/2023 13:44	Barometric Pressure	982	mbar	5	GA5000 SN:G508511	
S2-BH229	1	04/07/2023 13:49	Water Level	13.58	m	0.01	Dip Meter	Base dipped at 13.81m. Insufficient water to sample
S2-BH229	1	02/08/2023 12:22	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH229	1	02/08/2023 12:22	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH229	1	02/08/2023 12:22	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH229	1	02/08/2023 12:22	Steady Oxygen	15.8	%	1	GA5000 SN:G504748	
S2-BH229	1	02/08/2023 12:22	Peak Oxygen	15.8	%	1	GA5000 SN:G504748	
S2-BH229	1	02/08/2023 12:22	Barometric Pressure	956	mbar	5	GA5000 SN:G504748	
S2-BH229	1	02/08/2023 12:22	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH229	1	02/08/2023 12:22	Steady Carbon Dioxide	3.8	%	0.5	GA5000 SN:G504748	
S2-BH229	1	02/08/2023 12:22	Peak Carbon Dioxide	3.9	%	0.5	GA5000 SN:G504748	
S2-BH229	1	02/08/2023 12:22	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH229	1	02/08/2023 12:22	Differential Pressure	-0.03	mbar	4	GA5000 SN:G504748	
S2-BH229	1	02/08/2023 12:35	Water Level	12.08	m	0.01	Dip Meter	Base dipped at 13.82m
S2-BH229	2	02/08/2023 13:13	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH229	2	02/08/2023 13:13	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH229	2	02/08/2023 13:13	Steady Oxygen	0.1	%	1	GA5000 SN:G504748	
S2-BH229	2	02/08/2023 13:13	Peak Oxygen	0.1	%	1	GA5000 SN:G504748	
S2-BH229	2	02/08/2023 13:13	Differential Pressure	10.11	mbar	4	GA5000 SN:G504748	
S2-BH229	2	02/08/2023 13:13	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH229	2	02/08/2023 13:13	Gas Flow Rate	-0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH229	2	02/08/2023 13:13	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH229	2	02/08/2023 13:13	Steady Carbon Dioxide	9.4	%	0.5	GA5000 SN:G504748	
S2-BH229	2	02/08/2023 13:13	Barometric Pressure	956	mbar	5	GA5000 SN:G504748	
S2-BH229	2	02/08/2023 13:13	Peak Carbon Dioxide	9.4	%	0.5	GA5000 SN:G504748	
S2-BH229	2	02/08/2023 13:19	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 2.82m
S2-BH229	1	31/08/2023 12:46	Steady Methane	0.2	%	0.5	GA5000 SN:G508511	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH229	1	31/08/2023 12:46	Peak Methane	0.2	%	0.5	GA5000 SN:G508511	
S2-BH229	1	31/08/2023 12:46	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH229	1	31/08/2023 12:46	Peak Oxygen	16.5	%	1	GA5000 SN:G508511	
S2-BH229	1	31/08/2023 12:46	Steady Oxygen	16.5	%	1	GA5000 SN:G508511	
S2-BH229	1	31/08/2023 12:46	Peak Carbon Dioxide	4.7	%	0.5	GA5000 SN:G508511	
S2-BH229	1	31/08/2023 12:46	Barometric Pressure	980	mbar	5	GA5000 SN:G508511	
S2-BH229	1	31/08/2023 12:46	Steady Carbon Dioxide	4.7	%	0.5	GA5000 SN:G508511	
S2-BH229	1	31/08/2023 12:46	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511	
S2-BH229	1	31/08/2023 12:46	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH229	1	31/08/2023 12:46	Differential Pressure	0.4	mbar	4	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:52	Differential Pressure	0.19	mbar	4	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:52	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:52	Gas Flow Rate	0.5	l/hr	0.3	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:52	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:52	Steady Carbon Dioxide	7.2	%	0.5	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:52	Barometric Pressure	979	mbar	5	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:52	Peak Carbon Dioxide	7.3	%	0.5	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:52	Steady Oxygen	0.1	%	1	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:52	Peak Oxygen	0.1	%	1	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:52	Peak Methane	0.2	%	0.5	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:52	Steady Methane	0.2	%	0.5	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:53	Water Level		m	0.01	Dip Meter	Base dipped at 2.81m Dry.
S2-BH229	1	31/08/2023 12:57	Water Level	12.4	m	0.01	Dip Meter	Base dipped at 14.20m
S2-BH230	1	29/06/2023 15:26	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH230	1	29/06/2023 15:26	Peak Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH230	1	29/06/2023 15:26	Peak Oxygen	19.5	%	1	GA5000 SN:G504748	
S2-BH230	1	29/06/2023 15:26	Steady Oxygen	19.6	%	1	GA5000 SN:G504748	
S2-BH230	1	29/06/2023 15:26	Peak Carbon Dioxide	2.2	%	0.5	GA5000 SN:G504748	
S2-BH230	1	29/06/2023 15:26	Barometric Pressure	987	mbar	5	GA5000 SN:G504748	
S2-BH230	1	29/06/2023 15:26	Steady Carbon Dioxide	2.1	%	0.5	GA5000 SN:G504748	
S2-BH230	1	29/06/2023 15:26	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH230	1	29/06/2023 15:26	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH230	1	29/06/2023 15:26	Differential Pressure	0.14	mbar	4	GA5000 SN:G504748	
S2-BH230	1	29/06/2023 15:26	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH230	1	29/06/2023 15:34	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 25.87m
S2-BH230	1	26/07/2023 12:36	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH230	1	26/07/2023 12:36	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH230	1	26/07/2023 12:36	Steady Oxygen	19.2	%	1	GA5000 SN:G508511	
S2-BH230	1	26/07/2023 12:36	Peak Oxygen	19.2	%	1	GA5000 SN:G508511	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH230	1	26/07/2023 12:36	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH230	1	26/07/2023 12:36	Differential Pressure	1.82	mbar	4	GA5000 SN:G508511	
S2-BH230	1	26/07/2023 12:36	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G508511	
S2-BH230	1	26/07/2023 12:36	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH230	1	26/07/2023 12:36	Steady Carbon Dioxide	3.9	%	0.5	GA5000 SN:G508511	
S2-BH230	1	26/07/2023 12:36	Barometric Pressure	981	mbar	5	GA5000 SN:G508511	
S2-BH230	1	26/07/2023 12:36	Peak Carbon Dioxide	3.9	%	0.5	GA5000 SN:G508511	
S2-BH230	1	26/07/2023 12:41	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 25.90m
S2-BH230	1	23/08/2023 13:28	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH230	1	23/08/2023 13:28	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH230	1	23/08/2023 13:28	Steady Oxygen	19.01	%	1	GA5000 SN:G508511	
S2-BH230	1	23/08/2023 13:28	Peak Oxygen	19.1	%	1	GA5000 SN:G508511	
S2-BH230	1	23/08/2023 13:28	Barometric Pressure	989	mbar	5	GA5000 SN:G508511	
S2-BH230	1	23/08/2023 13:28	Peak Carbon Dioxide	3.1	%	0.5	GA5000 SN:G508511	
S2-BH230	1	23/08/2023 13:28	Steady Carbon Dioxide	3.1	%	0.5	GA5000 SN:G508511	
S2-BH230	1	23/08/2023 13:28	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH230	1	23/08/2023 13:28	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH230	1	23/08/2023 13:28	Differential Pressure	1.14	mbar	4	GA5000 SN:G508511	
S2-BH230	1	23/08/2023 13:28	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH230	1	23/08/2023 13:42	Water Level		m	0.01	Dip Meter	Base dipped at 25.92m Dry.
S2-BH231	1	04/07/2023 11:43	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH231	1	04/07/2023 11:43	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH231	1	04/07/2023 11:43	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH231	1	04/07/2023 11:43	Steady Oxygen	18.8	%	1	GA5000 SN:G508511	
S2-BH231	1	04/07/2023 11:43	Peak Oxygen	17.8	%	1	GA5000 SN:G508511	
S2-BH231	1	04/07/2023 11:43	Differential Pressure	0.03	mbar	4	GA5000 SN:G508511	
S2-BH231	1	04/07/2023 11:43	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH231	1	04/07/2023 11:43	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH231	1	04/07/2023 11:43	Steady Carbon Dioxide	4.1	%	0.5	GA5000 SN:G508511	
S2-BH231	1	04/07/2023 11:43	Barometric Pressure	982	mbar	5	GA5000 SN:G508511	
S2-BH231	1	04/07/2023 11:43	Peak Carbon Dioxide	4.1	%	0.5	GA5000 SN:G508511	
S2-BH231	1	04/07/2023 11:46	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 25.35m
S2-BH231	1	31/07/2023 14:51	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH231	1	31/07/2023 14:51	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH231	1	31/07/2023 14:51	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH231	1	31/07/2023 14:51	Steady Oxygen	20.6	%	1	GA5000 SN:G504748	
S2-BH231	1	31/07/2023 14:51	Peak Oxygen	16.3	%	1	GA5000 SN:G504748	
S2-BH231	1	31/07/2023 14:51	Barometric Pressure	975	mbar	5	GA5000 SN:G504748	
S2-BH231	1	31/07/2023 14:51	Steady Carbon Dioxide	0.6	%	0.5	GA5000 SN:G504748	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH231	1	31/07/2023 14:51	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH231	1	31/07/2023 14:51	Peak Carbon Dioxide	1.2	%	0.5	GA5000 SN:G504748	
S2-BH231	1	31/07/2023 14:51	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH231	1	31/07/2023 14:51	Differential Pressure	-0.19	mbar	4	GA5000 SN:G504748	
S2-BH231	1	31/07/2023 14:55	Water Level	21.32	m	0.01	Dip Meter	Base dipped at 25.03m
S2-BH231	1	30/08/2023 14:36	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH231	1	30/08/2023 14:36	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH231	1	30/08/2023 14:36	Peak Oxygen	19.7	%	1	GA5000 SN:G508511	
S2-BH231	1	30/08/2023 14:36	Steady Oxygen	19.7	%	1	GA5000 SN:G508511	
S2-BH231	1	30/08/2023 14:36	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH231	1	30/08/2023 14:36	Differential Pressure	0.02	mbar	4	GA5000 SN:G508511	
S2-BH231	1	30/08/2023 14:36	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G508511	
S2-BH231	1	30/08/2023 14:36	Steady Carbon Dioxide	3.2	%	0.5	GA5000 SN:G508511	
S2-BH231	1	30/08/2023 14:36	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH231	1	30/08/2023 14:36	Barometric Pressure	984	mbar	5	GA5000 SN:G508511	
S2-BH231	1	30/08/2023 14:36	Peak Carbon Dioxide	3.2	%	0.5	GA5000 SN:G508511	
S2-BH231	1	30/08/2023 14:43	Water Level	22.12	m	0.01	Dip Meter	Base dipped at 25.05m
S2-BH232	1	29/06/2023 11:27	Steady Methane	18.1	%	0.5	GA5000 SN:G504748	
S2-BH232	1	29/06/2023 11:27	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH232	1	29/06/2023 11:27	Peak Methane	20.4	%	0.5	GA5000 SN:G504748	
S2-BH232	1	29/06/2023 11:27	Peak Oxygen	0.4	%	1	GA5000 SN:G504748	
S2-BH232	1	29/06/2023 11:27	Steady Oxygen	2.8	%	1	GA5000 SN:G504748	
S2-BH232	1	29/06/2023 11:27	Peak Carbon Dioxide	10.5	%	0.5	GA5000 SN:G504748	
S2-BH232	1	29/06/2023 11:27	Barometric Pressure	990	mbar	5	GA5000 SN:G504748	
S2-BH232	1	29/06/2023 11:27	Steady Carbon Dioxide	9.3	%	0.5	GA5000 SN:G504748	
S2-BH232	1	29/06/2023 11:27	Carbon Monoxide	1	ppm	2	GA5000 SN:G504748	
S2-BH232	1	29/06/2023 11:27	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH232	1	29/06/2023 11:27	Differential Pressure	0.09	mbar	4	GA5000 SN:G504748	
S2-BH232	1	29/06/2023 11:33	Water Level	5.28	m	0.01	Dip Meter	Base dipped at 6.83m
S2-BH232	1	01/08/2023 12:49	Steady Methane	8.8	%	0.5	GA5000 SN:G504748	
S2-BH232	1	01/08/2023 12:49	Peak Methane	8.8	%	0.5	GA5000 SN:G504748	
S2-BH232	1	01/08/2023 12:49	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH232	1	01/08/2023 12:49	Peak Oxygen	0.3	%	1	GA5000 SN:G504748	
S2-BH232	1	01/08/2023 12:49	Steady Oxygen	0.3	%	1	GA5000 SN:G504748	
S2-BH232	1	01/08/2023 12:49	Differential Pressure	0.12	mbar	4	GA5000 SN:G504748	
S2-BH232	1	01/08/2023 12:49	Gas Flow Rate	-0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH232	1	01/08/2023 12:49	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH232	1	01/08/2023 12:49	Steady Carbon Dioxide	12.2	%	0.5	GA5000 SN:G504748	
S2-BH232	1	01/08/2023 12:49	Peak Carbon Dioxide	12.2	%	0.5	GA5000 SN:G504748	

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Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH232	1	01/08/2023 12:49	Barometric Pressure	974	mbar	5	GA5000 SN:G504748	
S2-BH232	1	01/08/2023 12:54	Water Level	4.45	m	0.01	Dip Meter	Base dipped at 6.95m
S2-BH233	1	29/06/2023 16:35	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH233	1	29/06/2023 16:35	Peak Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH233	1	29/06/2023 16:35	Steady Oxygen	20.6	%	1	GA5000 SN:G504748	
S2-BH233	1	29/06/2023 16:35	Peak Oxygen	20.6	%	1	GA5000 SN:G504748	
S2-BH233	1	29/06/2023 16:35	Barometric Pressure	990	mbar	5	GA5000 SN:G504748	
S2-BH233	1	29/06/2023 16:35	Peak Carbon Dioxide	1.6	%	0.5	GA5000 SN:G504748	
S2-BH233	1	29/06/2023 16:35	Steady Carbon Dioxide	1.6	%	0.5	GA5000 SN:G504748	
S2-BH233	1	29/06/2023 16:35	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH233	1	29/06/2023 16:35	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH233	1	29/06/2023 16:35	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH233	1	29/06/2023 16:35	Differential Pressure	0.09	mbar	4	GA5000 SN:G504748	
S2-BH233	1	29/06/2023 16:38	Water Level		m	0.01	Dip Meter	Damp at base. Base dipped at 24.78m
S2-BH233	1	26/07/2023 14:20	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH233	1	26/07/2023 14:20	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH233	1	26/07/2023 14:20	Peak Oxygen	16.3	%	1	GA5000 SN:G508511	
S2-BH233	1	26/07/2023 14:20	Steady Oxygen	16.4	%	1	GA5000 SN:G508511	
S2-BH233	1	26/07/2023 14:20	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH233	1	26/07/2023 14:20	Differential Pressure	0.21	mbar	4	GA5000 SN:G508511	
S2-BH233	1	26/07/2023 14:20	Gas Flow Rate	-0.1	l/hr	0.3	GA5000 SN:G508511	
S2-BH233	1	26/07/2023 14:20	Steady Carbon Dioxide	6.9	%	0.5	GA5000 SN:G508511	
S2-BH233	1	26/07/2023 14:20	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH233	1	26/07/2023 14:20	Peak Carbon Dioxide	6.9	%	0.5	GA5000 SN:G508511	
S2-BH233	1	26/07/2023 14:20	Barometric Pressure	984	mbar	5	GA5000 SN:G508511	
S2-BH233	1	26/07/2023 14:25	Water Level		m	0.01	Dip Meter	Borehole damp at base. Base dipped at 24.79m
S2-BH233	1	25/08/2023 14:34	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH233	1	25/08/2023 14:34	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH233	1	25/08/2023 14:34	Peak Oxygen	13.8	%	1	GA5000 SN:G504748	
S2-BH233	1	25/08/2023 14:34	Steady Oxygen	13.8	%	1	GA5000 SN:G504748	
S2-BH233	1	25/08/2023 14:34	Barometric Pressure	981	mbar	5	GA5000 SN:G504748	
S2-BH233	1	25/08/2023 14:34	Peak Carbon Dioxide	9.5	%	0.5	GA5000 SN:G504748	
S2-BH233	1	25/08/2023 14:34	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH233	1	25/08/2023 14:34	Steady Carbon Dioxide	9.5	%	0.5	GA5000 SN:G504748	
S2-BH233	1	25/08/2023 14:34	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH233	1	25/08/2023 14:34	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH233	1	25/08/2023 14:34	Differential Pressure	-0.05	mbar	4	GA5000 SN:G504748	
S2-BH233	1	25/08/2023 14:36	Water Level		m	0.01	Dip Meter	Damp at base. Base dipped at 25.0m
S2-BH235	1	04/07/2023 10:32	Steady Methane	0.4	%	0.5	GA5000 SN:G508511	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH235	1	04/07/2023 10:32	Peak Methane	0.4	%	0.5	GA5000 SN:G508511	
S2-BH235	1	04/07/2023 10:32	Peak Oxygen	6.5	%	1	GA5000 SN:G508511	
S2-BH235	1	04/07/2023 10:32	Steady Oxygen	6.5	%	1	GA5000 SN:G508511	
S2-BH235	1	04/07/2023 10:32	Differential Pressure	0.03	mbar	4	GA5000 SN:G508511	
S2-BH235	1	04/07/2023 10:32	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH235	1	04/07/2023 10:32	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G508511	
S2-BH235	1	04/07/2023 10:32	Carbon Monoxide	3	ppm	2	GA5000 SN:G508511	
S2-BH235	1	04/07/2023 10:32	Steady Carbon Dioxide	11.7	%	0.5	GA5000 SN:G508511	
S2-BH235	1	04/07/2023 10:32	Peak Carbon Dioxide	11.8	%	0.5	GA5000 SN:G508511	
S2-BH235	1	04/07/2023 10:32	Barometric Pressure	983	mbar	5	GA5000 SN:G508511	
S2-BH235	1	04/07/2023 10:35	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 14.72m
S2-BH235	1	31/07/2023 13:40	Steady Methane	0.4	%	0.5	GA5000 SN:G508511	
S2-BH235	1	31/07/2023 13:40	Peak Methane	0.4	%	0.5	GA5000 SN:G508511	
S2-BH235	1	31/07/2023 13:40	Steady Oxygen	4.4	%	1	GA5000 SN:G508511	
S2-BH235	1	31/07/2023 13:40	Peak Oxygen	4.4	%	1	GA5000 SN:G508511	
S2-BH235	1	31/07/2023 13:40	Peak Carbon Dioxide	12.1	%	0.5	GA5000 SN:G508511	
S2-BH235	1	31/07/2023 13:40	Barometric Pressure	975	mbar	5	GA5000 SN:G508511	
S2-BH235	1	31/07/2023 13:40	Steady Carbon Dioxide	12.1	%	0.5	GA5000 SN:G508511	
S2-BH235	1	31/07/2023 13:40	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511	
S2-BH235	1	31/07/2023 13:40	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH235	1	31/07/2023 13:40	Differential Pressure	2.05	mbar	4	GA5000 SN:G508511	
S2-BH235	1	31/07/2023 13:40	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G508511	
S2-BH235	1	31/07/2023 13:45	Water Level		m	0.01	Dip Meter	Borehole damp at base. Base dipped at 14.78m
S2-BH235	1	23/08/2023 15:09	Steady Methane	0.6	%	0.5	GA5000 SN:G508511	
S2-BH235	1	23/08/2023 15:09	Peak Methane	0.6	%	0.5	GA5000 SN:G508511	
S2-BH235	1	23/08/2023 15:09	Steady Oxygen	5.9	%	1	GA5000 SN:G508511	
S2-BH235	1	23/08/2023 15:09	Peak Oxygen	5.9	%	1	GA5000 SN:G508511	
S2-BH235	1	23/08/2023 15:09	Differential Pressure	1.3	mbar	4	GA5000 SN:G508511	
S2-BH235	1	23/08/2023 15:09	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH235	1	23/08/2023 15:09	Gas Flow Rate	0.3	l/hr	0.3	GA5000 SN:G508511	
S2-BH235	1	23/08/2023 15:09	Carbon Monoxide	3	ppm	2	GA5000 SN:G508511	
S2-BH235	1	23/08/2023 15:09	Steady Carbon Dioxide	11.9	%	0.5	GA5000 SN:G508511	
S2-BH235	1	23/08/2023 15:09	Barometric Pressure	988	mbar	5	GA5000 SN:G508511	
S2-BH235	1	23/08/2023 15:09	Peak Carbon Dioxide	11.9	%	0.5	GA5000 SN:G508511	
S2-BH235	1	23/08/2023 15:22	Water Level		m	0.01	Dip Meter	Base dipped at 14.70m Dry.
S2-BH236	1	04/07/2023 10:49	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH236	1	04/07/2023 10:49	Peak Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH236	1	04/07/2023 10:49	Peak Oxygen	17.6	%	1	GA5000 SN:G508511	
S2-BH236	1	04/07/2023 10:49	Steady Oxygen	20.8	%	1	GA5000 SN:G508511	

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Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH236	1	04/07/2023 10:49	Barometric Pressure	983	mbar	5	GA5000 SN:G508511	
S2-BH236	1	04/07/2023 10:49	Peak Carbon Dioxide	1.9	%	0.5	GA5000 SN:G508511	
S2-BH236	1	04/07/2023 10:49	Steady Carbon Dioxide	1	%	0.5	GA5000 SN:G508511	
S2-BH236	1	04/07/2023 10:49	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH236	1	04/07/2023 10:49	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH236	1	04/07/2023 10:49	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH236	1	04/07/2023 10:49	Differential Pressure	0.03	mbar	4	GA5000 SN:G508511	
S2-BH236	1	04/07/2023 10:53	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 14.49m
S2-BH236	1	31/07/2023 13:56	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH236	1	31/07/2023 13:56	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH236	1	31/07/2023 13:56	Steady Oxygen	6.3	%	1	GA5000 SN:G504748	
S2-BH236	1	31/07/2023 13:56	Peak Oxygen	6.3	%	1	GA5000 SN:G504748	
S2-BH236	1	31/07/2023 13:56	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH236	1	31/07/2023 13:56	Differential Pressure	4.28	mbar	4	GA5000 SN:G504748	
S2-BH236	1	31/07/2023 13:56	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH236	1	31/07/2023 13:56	Gas Flow Rate	4.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH236	1	31/07/2023 13:56	Steady Carbon Dioxide	7	%	0.5	GA5000 SN:G504748	
S2-BH236	1	31/07/2023 13:56	Peak Carbon Dioxide	7.1	%	0.5	GA5000 SN:G504748	
S2-BH236	1	31/07/2023 13:56	Barometric Pressure	975	mbar	5	GA5000 SN:G504748	
S2-BH236	1	31/07/2023 14:01	Water Level	8.4	m	0.01	Dip Meter	Base dipped at 14.39m
S2-BH236	1	30/08/2023 13:47	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH236	1	30/08/2023 13:47	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH236	1	30/08/2023 13:47	Peak Oxygen	9.6	%	1	GA5000 SN:G508511	
S2-BH236	1	30/08/2023 13:47	Steady Oxygen	10.2	%	1	GA5000 SN:G508511	
S2-BH236	1	30/08/2023 13:47	Barometric Pressure	985	mbar	5	GA5000 SN:G508511	
S2-BH236	1	30/08/2023 13:47	Peak Carbon Dioxide	3.4	%	0.5	GA5000 SN:G508511	
S2-BH236	1	30/08/2023 13:47	Steady Carbon Dioxide	3.2	%	0.5	GA5000 SN:G508511	
S2-BH236	1	30/08/2023 13:47	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH236	1	30/08/2023 13:47	Gas Flow Rate	2	l/hr	0.3	GA5000 SN:G508511	
S2-BH236	1	30/08/2023 13:47	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH236	1	30/08/2023 13:47	Differential Pressure	1.2	mbar	4	GA5000 SN:G508511	
S2-BH236	1	30/08/2023 14:07	Water Level	13.14	m	0.01	Dip Meter	Base dipped at 14.42m
S2-BH237	1	29/06/2023 09:08	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH237	1	29/06/2023 09:08	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH237	1	29/06/2023 09:08	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH237	1	29/06/2023 09:08	Steady Oxygen	7.1	%	1	GA5000 SN:G504748	
S2-BH237	1	29/06/2023 09:08	Peak Oxygen	7.1	%	1	GA5000 SN:G504748	
S2-BH237	1	29/06/2023 09:08	Differential Pressure	-0.12	mbar	4	GA5000 SN:G504748	
S2-BH237	1	29/06/2023 09:08	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH237	1	29/06/2023 09:08	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH237	1	29/06/2023 09:08	Steady Carbon Dioxide	7.2	%	0.5	GA5000 SN:G504748	
S2-BH237	1	29/06/2023 09:08	Peak Carbon Dioxide	7.2	%	0.5	GA5000 SN:G504748	
S2-BH237	1	29/06/2023 09:08	Barometric Pressure	988	mbar	5	GA5000 SN:G504748	
S2-BH237	1	29/06/2023 09:14	Water Level	12.67	m	0.01	Dip Meter	Base dipped at 25.37m
S2-BH237	1	26/07/2023 14:20	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH237	1	26/07/2023 14:20	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH237	1	26/07/2023 14:20	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH237	1	26/07/2023 14:20	Peak Oxygen	9.7	%	1	GA5000 SN:G504748	
S2-BH237	1	26/07/2023 14:20	Steady Oxygen	9.7	%	1	GA5000 SN:G504748	
S2-BH237	1	26/07/2023 14:20	Barometric Pressure	980	mbar	5	GA5000 SN:G504748	
S2-BH237	1	26/07/2023 14:20	Peak Carbon Dioxide	5.2	%	0.5	GA5000 SN:G504748	
S2-BH237	1	26/07/2023 14:20	Steady Carbon Dioxide	5.2	%	0.5	GA5000 SN:G504748	
S2-BH237	1	26/07/2023 14:20	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH237	1	26/07/2023 14:20	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH237	1	26/07/2023 14:20	Differential Pressure	0.03	mbar	4	GA5000 SN:G504748	
S2-BH237	1	26/07/2023 14:28	Water Level	11.9	m	0.01	Dip Meter	Base dipped at 25.50m
S2-BH237	1	25/08/2023 13:37	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH237	1	25/08/2023 13:37	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH237	1	25/08/2023 13:37	Steady Oxygen	4.9	%	1	GA5000 SN:G504748	
S2-BH237	1	25/08/2023 13:37	Peak Oxygen	4.9	%	1	GA5000 SN:G504748	
S2-BH237	1	25/08/2023 13:37	Differential Pressure	0.03	mbar	4	GA5000 SN:G504748	
S2-BH237	1	25/08/2023 13:37	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH237	1	25/08/2023 13:37	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH237	1	25/08/2023 13:37	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH237	1	25/08/2023 13:37	Steady Carbon Dioxide	5.9	%	0.5	GA5000 SN:G504748	
S2-BH237	1	25/08/2023 13:37	Peak Carbon Dioxide	5.9	%	0.5	GA5000 SN:G504748	
S2-BH237	1	25/08/2023 13:37	Barometric Pressure	980	mbar	5	GA5000 SN:G504748	
S2-BH237	1	25/08/2023 13:40	Water Level	12.47	m	0.01	Dip Meter	Base dipped at 25.27m
S2-BH239	1		Water Level	1.37	m	0.01	Dip Meter	Base dipped at 3.60m
S2-BH239	2	26/06/2023 15:10	Steady Oxygen	19.5	%	1	GA5000	
S2-BH239	2	26/06/2023 15:10	Peak Oxygen	17.7	%	1	GA5000	
S2-BH239	2	26/06/2023 15:10	Peak Methane	1.7	%	0.5	GA5000	
S2-BH239	2	26/06/2023 15:10	Hydrogen Sulphide	2	ppm	1.5	GA5000	
S2-BH239	2	26/06/2023 15:10	Steady Methane	1.6	%	0.5	GA5000	
S2-BH239	2	26/06/2023 15:10	Peak Carbon Dioxide	1.8	%	0.5	GA5000	
S2-BH239	2	26/06/2023 15:10	Barometric Pressure	997	mbar	5	GA5000	
S2-BH239	2	26/06/2023 15:10	Carbon Monoxide	1	ppm	2	GA5000	
S2-BH239	2	26/06/2023 15:10	Steady Carbon Dioxide	1.5	%	0.5	GA5000	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH239	2	26/06/2023 15:10	Gas Flow Rate	4.4	l/hr	0.3	GA5000	
S2-BH239	2	26/06/2023 15:10	Differential Pressure	0.23	mbar	4	GA5000	
S2-BH239	2	26/06/2023 15:14	Water Level	2.2	m	0.01	Dip Meter	Base dipped at 7.6m
S2-BH239	1	27/06/2023 10:06	Steady Methane	1.7	%	0.5	GA5000	
S2-BH239	1	27/06/2023 10:06	Peak Methane	1.7	%	0.5	GA5000	
S2-BH239	1	27/06/2023 10:06	Steady Oxygen	20.1	%	1	GA5000	
S2-BH239	1	27/06/2023 10:06	Peak Oxygen	20.1	%	1	GA5000	
S2-BH239	1	27/06/2023 10:06	Differential Pressure	-0.03	mbar	4	GA5000	
S2-BH239	1	27/06/2023 10:06	Hydrogen Sulphide	0	ppm	1.5	GA5000	
S2-BH239	1	27/06/2023 10:06	Gas Flow Rate	-0.1	l/hr	0.3	GA5000	
S2-BH239	1	27/06/2023 10:06	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH239	1	27/06/2023 10:06	Steady Carbon Dioxide	0.6	%	0.5	GA5000	
S2-BH239	1	27/06/2023 10:06	Barometric Pressure	996	mbar	5	GA5000	
S2-BH239	1	27/06/2023 10:06	Peak Carbon Dioxide	0.6	%	0.5	GA5000	
S2-BH239	1	27/06/2023 10:08	Water Level	1.89	m	0.01	Dip Meter	Base dipped at 3.60m
S2-BH239	1	25/07/2023 10:33	Steady Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH239	1	25/07/2023 10:33	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH239	1	25/07/2023 10:33	Steady Oxygen	13.8	%	1	GA5000 SN:G504748	
S2-BH239	1	25/07/2023 10:33	Peak Oxygen	13.8	%	1	GA5000 SN:G504748	
S2-BH239	1	25/07/2023 10:33	Peak Carbon Dioxide	5.5	%	0.5	GA5000 SN:G504748	
S2-BH239	1	25/07/2023 10:33	Barometric Pressure	985	mbar	5	GA5000 SN:G504748	
S2-BH239	1	25/07/2023 10:33	Steady Carbon Dioxide	5.5	%	0.5	GA5000 SN:G504748	
S2-BH239	1	25/07/2023 10:33	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH239	1	25/07/2023 10:33	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH239	1	25/07/2023 10:33	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH239	1	25/07/2023 10:33	Differential Pressure	0.05	mbar	4	GA5000 SN:G504748	
S2-BH239	2	25/07/2023 10:39	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH239	2	25/07/2023 10:39	Differential Pressure	-0.64	mbar	4	GA5000 SN:G504748	
S2-BH239	2	25/07/2023 10:39	Gas Flow Rate	6.9	l/hr	0.3	GA5000 SN:G504748	
S2-BH239	2	25/07/2023 10:39	Carbon Monoxide	2	ppm	2	GA5000 SN:G504748	
S2-BH239	2	25/07/2023 10:39	Steady Carbon Dioxide	5.1	%	0.5	GA5000 SN:G504748	
S2-BH239	2	25/07/2023 10:39	Peak Carbon Dioxide	5.1	%	0.5	GA5000 SN:G504748	
S2-BH239	2	25/07/2023 10:39	Barometric Pressure	985	mbar	5	GA5000 SN:G504748	
S2-BH239	2	25/07/2023 10:39	Steady Oxygen	16	%	1	GA5000 SN:G504748	
S2-BH239	2	25/07/2023 10:39	Peak Oxygen	16	%	1	GA5000 SN:G504748	
S2-BH239	2	25/07/2023 10:39	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH239	2	25/07/2023 10:39	Steady Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH239	1	25/07/2023 10:42	Water Level	1.46	m	0.01	Dip Meter	Base dipped at 3.70m
S2-BH239	2	25/07/2023 10:44	Water Level	1.74	m	0.01	Dip Meter	Base dipped at 7.80m

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH239	1	22/08/2023 15:08	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH239	1	22/08/2023 15:08	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH239	1	22/08/2023 15:08	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH239	1	22/08/2023 15:08	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH239	1	22/08/2023 15:08	Peak Oxygen	15	%	1	GA5000 SN:G504748	
S2-BH239	1	22/08/2023 15:08	Steady Oxygen	15	%	1	GA5000 SN:G504748	
S2-BH239	1	22/08/2023 15:08	Barometric Pressure	995	mbar	5	GA5000 SN:G504748	
S2-BH239	1	22/08/2023 15:08	Peak Carbon Dioxide	6.5	%	0.5	GA5000 SN:G504748	
S2-BH239	1	22/08/2023 15:08	Steady Carbon Dioxide	6.5	%	0.5	GA5000 SN:G504748	
S2-BH239	1	22/08/2023 15:08	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH239	1	22/08/2023 15:08	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH239	1	22/08/2023 15:08	Differential Pressure	-0.12	mbar	4	GA5000 SN:G504748	
S2-BH239	2	22/08/2023 15:10	Differential Pressure	-5.83	mbar	4	GA5000 SN:G504748	
S2-BH239	2	22/08/2023 15:10	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH239	2	22/08/2023 15:10	Carbon Monoxide	3	ppm	2	GA5000 SN:G504748	
S2-BH239	2	22/08/2023 15:10	Steady Carbon Dioxide	6.1	%	0.5	GA5000 SN:G504748	
S2-BH239	2	22/08/2023 15:10	Peak Carbon Dioxide	6.1	%	0.5	GA5000 SN:G504748	
S2-BH239	2	22/08/2023 15:10	Barometric Pressure	996	mbar	5	GA5000 SN:G504748	
S2-BH239	2	22/08/2023 15:10	Steady Oxygen	15.2	%	1	GA5000 SN:G504748	
S2-BH239	2	22/08/2023 15:10	Peak Oxygen	15.2	%	1	GA5000 SN:G504748	
S2-BH239	2	22/08/2023 15:10	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH239	2	22/08/2023 15:10	Steady Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH239	2	22/08/2023 15:22	Water Level	1.92	m	0.01	Dip Meter	Base dipped at 7.59m
S2-BH240	1	27/06/2023 10:38	Steady Methane	1.7	%	0.5	GA5000	
S2-BH240	1	27/06/2023 10:38	Peak Methane	1.8	%	0.5	GA5000	
S2-BH240	1	27/06/2023 10:38	Hydrogen Sulphide	0	ppm	1.5	GA5000	
S2-BH240	1	27/06/2023 10:38	Peak Oxygen	15.3	%	1	GA5000	
S2-BH240	1	27/06/2023 10:38	Steady Oxygen	15.4	%	1	GA5000	
S2-BH240	1	27/06/2023 10:38	Barometric Pressure	996	mbar	5	GA5000	
S2-BH240	1	27/06/2023 10:38	Peak Carbon Dioxide	5	%	0.5	GA5000	
S2-BH240	1	27/06/2023 10:38	Steady Carbon Dioxide	5	%	0.5	GA5000	
S2-BH240	1	27/06/2023 10:38	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH240	1	27/06/2023 10:38	Differential Pressure	0	mbar	4	GA5000	
S2-BH240	1	27/06/2023 10:39	Gas Flow Rate	0.2	l/hr	0.3	GA5000	
S2-BH240	1	27/06/2023 10:50	Water Level	2.01	m	0.01	Dip Meter	Base dipped at 5.16m
S2-BH240	1	24/07/2023 15:26	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH240	1	24/07/2023 15:26	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH240	1	24/07/2023 15:26	Peak Oxygen	4	%	1	GA5000 SN:G504748	
S2-BH240	1	24/07/2023 15:26	Steady Oxygen	4	%	1	GA5000 SN:G504748	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH240	1	24/07/2023 15:26	Gas Flow Rate	7	l/hr	0.3	GA5000 SN:G504748	
S2-BH240	1	24/07/2023 15:26	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH240	1	24/07/2023 15:26	Differential Pressure	3.54	mbar	4	GA5000 SN:G504748	
S2-BH240	1	24/07/2023 15:26	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH240	1	24/07/2023 15:26	Steady Carbon Dioxide	11.2	%	0.5	GA5000 SN:G504748	
S2-BH240	1	24/07/2023 15:26	Peak Carbon Dioxide	11.2	%	0.5	GA5000 SN:G504748	
S2-BH240	1	24/07/2023 15:26	Barometric Pressure	983	mbar	5	GA5000 SN:G504748	
S2-BH240	1	24/07/2023 15:29	Water Level	1.55	m	0.01	Dip Meter	Base dipped at 5.38m
S2-BH240	1	22/08/2023 14:26	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH240	1	22/08/2023 14:26	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH240	1	22/08/2023 14:26	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH240	1	22/08/2023 14:26	Steady Oxygen	19.9	%	1	GA5000 SN:G504748	
S2-BH240	1	22/08/2023 14:26	Peak Oxygen	19.9	%	1	GA5000 SN:G504748	
S2-BH240	1	22/08/2023 14:26	Barometric Pressure	995	mbar	5	GA5000 SN:G504748	
S2-BH240	1	22/08/2023 14:26	Steady Carbon Dioxide	1.4	%	0.5	GA5000 SN:G504748	
S2-BH240	1	22/08/2023 14:26	Peak Carbon Dioxide	1.4	%	0.5	GA5000 SN:G504748	
S2-BH240	1	22/08/2023 14:26	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH240	1	22/08/2023 14:26	Differential Pressure	0.1	mbar	4	GA5000 SN:G504748	
S2-BH240	1	22/08/2023 14:26	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH240	1	22/08/2023 14:26	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH240	1	22/08/2023 14:29	Water Level	1.57	m	0.01	Dip Meter	Base dipped at 5.28m
S2-BH241	1	04/07/2023 11:02	Steady Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH241	1	04/07/2023 11:02	Peak Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH241	1	04/07/2023 11:02	Steady Oxygen	5.8	%	1	GA5000 SN:G508511	
S2-BH241	1	04/07/2023 11:02	Peak Oxygen	5.8	%	1	GA5000 SN:G508511	
S2-BH241	1	04/07/2023 11:02	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH241	1	04/07/2023 11:02	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH241	1	04/07/2023 11:02	Differential Pressure	0.19	mbar	4	GA5000 SN:G508511	
S2-BH241	1	04/07/2023 11:02	Peak Carbon Dioxide	3.9	%	0.5	GA5000 SN:G508511	
S2-BH241	1	04/07/2023 11:02	Steady Carbon Dioxide	3.9	%	0.5	GA5000 SN:G508511	
S2-BH241	1	04/07/2023 11:02	Carbon Monoxide	3	ppm	2	GA5000 SN:G508511	
S2-BH241	1	04/07/2023 11:02	Barometric Pressure	984	mbar	5	GA5000 SN:G508511	
S2-BH241	1	04/07/2023 11:06	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 14.74m
S2-BH241	1	31/07/2023 14:28	Steady Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH241	1	31/07/2023 14:28	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH241	1	31/07/2023 14:28	Peak Oxygen	2.2	%	1	GA5000 SN:G504748	
S2-BH241	1	31/07/2023 14:28	Steady Oxygen	2.2	%	1	GA5000 SN:G504748	
S2-BH241	1	31/07/2023 14:28	Barometric Pressure	976	mbar	5	GA5000 SN:G504748	
S2-BH241	1	31/07/2023 14:28	Peak Carbon Dioxide	3.9	%	0.5	GA5000 SN:G504748	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH241	1	31/07/2023 14:28	Steady Carbon Dioxide	3.9	%	0.5	GA5000 SN:G504748	
S2-BH241	1	31/07/2023 14:28	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH241	1	31/07/2023 14:28	Differential Pressure	-0.4	mbar	4	GA5000 SN:G504748	
S2-BH241	1	31/07/2023 14:28	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH241	1	31/07/2023 14:28	Carbon Monoxide	1	ppm	2	GA5000 SN:G504748	
S2-BH241	1	31/07/2023 14:35	Water Level	14.28	m	0.01	Dip Meter	Base dipped at 14.80m
S2-BH241	1	23/08/2023 14:24	Steady Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH241	1	23/08/2023 14:24	Peak Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH241	1	23/08/2023 14:24	Steady Oxygen	3.1	%	1	GA5000 SN:G508511	
S2-BH241	1	23/08/2023 14:24	Peak Oxygen	3.1	%	1	GA5000 SN:G508511	
S2-BH241	1	23/08/2023 14:24	Carbon Monoxide	2	ppm	2	GA5000 SN:G508511	
S2-BH241	1	23/08/2023 14:24	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH241	1	23/08/2023 14:24	Differential Pressure	0.1	mbar	4	GA5000 SN:G508511	
S2-BH241	1	23/08/2023 14:24	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH241	1	23/08/2023 14:24	Steady Carbon Dioxide	4	%	0.5	GA5000 SN:G508511	
S2-BH241	1	23/08/2023 14:24	Barometric Pressure	988	mbar	5	GA5000 SN:G508511	
S2-BH241	1	23/08/2023 14:24	Peak Carbon Dioxide	4	%	0.5	GA5000 SN:G508511	
S2-BH241	1	23/08/2023 14:32	Water Level	14.16	m	0.01	Dip Meter	Base dipped at 14.77m
S2-BH242	1	26/06/2023 15:23	Steady Methane	1.6	%	0.5	GA5000	
S2-BH242	1	26/06/2023 15:23	Peak Methane	1.6	%	0.5	GA5000	
S2-BH242	1	26/06/2023 15:23	Peak Oxygen	17.1	%	1	GA5000	
S2-BH242	1	26/06/2023 15:23	Steady Oxygen	17.3	%	1	GA5000	
S2-BH242	1	26/06/2023 15:23	Barometric Pressure	997	mbar	5	GA5000	
S2-BH242	1	26/06/2023 15:23	Steady Carbon Dioxide	3.7	%	0.5	GA5000	
S2-BH242	1	26/06/2023 15:23	Peak Carbon Dioxide	3.8	%	0.5	GA5000	
S2-BH242	1	26/06/2023 15:23	Hydrogen Sulphide	2	ppm	1.5	GA5000	
S2-BH242	1	26/06/2023 15:23	Differential Pressure	0.05	mbar	4	GA5000	
S2-BH242	1	26/06/2023 15:23	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH242	1	26/06/2023 15:25	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748 OR	
S2-BH242	1	26/06/2023 15:27	Water Level	2.07	m	0.01	Dip Meter	Base dipped at 3.74m
S2-BH242	1	25/07/2023 10:05	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH242	1	25/07/2023 10:05	Peak Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH242	1	25/07/2023 10:05	Peak Oxygen	15.1	%	1	GA5000 SN:G508511	
S2-BH242	1	25/07/2023 10:05	Steady Oxygen	15.1	%	1	GA5000 SN:G508511	
S2-BH242	1	25/07/2023 10:05	Differential Pressure	0.16	mbar	4	GA5000 SN:G508511	
S2-BH242	1	25/07/2023 10:05	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH242	1	25/07/2023 10:05	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH242	1	25/07/2023 10:05	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH242	1	25/07/2023 10:05	Steady Carbon Dioxide	4.3	%	0.5	GA5000 SN:G508511	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH242	1	25/07/2023 10:05	Peak Carbon Dioxide	4.3	%	0.5	GA5000 SN:G508511	
S2-BH242	1	25/07/2023 10:05	Barometric Pressure	987	mbar	5	GA5000 SN:G508511	
S2-BH242	1	25/07/2023 10:08	Water Level	1.88	m	0.01	Dip Meter	Base dipped at 3.79m
S2-BH242	1	22/08/2023 10:45	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH242	1	22/08/2023 10:45	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH242	1	22/08/2023 10:45	Steady Oxygen	16.9	%	1	GA5000 SN:G508511	
S2-BH242	1	22/08/2023 10:45	Peak Oxygen	13.2	%	1	GA5000 SN:G508511	
S2-BH242	1	22/08/2023 10:45	Barometric Pressure	994	mbar	5	GA5000 SN:G508511	
S2-BH242	1	22/08/2023 10:45	Steady Carbon Dioxide	1.6	%	0.5	GA5000 SN:G508511	
S2-BH242	1	22/08/2023 10:45	Peak Carbon Dioxide	3	%	0.5	GA5000 SN:G508511	
S2-BH242	1	22/08/2023 10:45	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH242	1	22/08/2023 10:45	Gas Flow Rate	0.4	l/hr	0.3	GA5000 SN:G508511	
S2-BH242	1	22/08/2023 10:45	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH242	1	22/08/2023 10:45	Differential Pressure	-0.14	mbar	4	GA5000 SN:G508511	
S2-BH242	1	22/08/2023 11:01	Water Level	2.1	m	0.01	Dip Meter	Base dipped at 3.77m
S2-BH243	2		Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 2.93m
S2-BH243	1	26/06/2023 13:32	Steady Methane	1.6	%	0.5	GA5000	
S2-BH243	1	26/06/2023 13:32	Hydrogen Sulphide	3	ppm	1.5	GA5000	
S2-BH243	1	26/06/2023 13:32	Peak Methane	1.6	%	0.5	GA5000	
S2-BH243	1	26/06/2023 13:32	Steady Oxygen	19.5	%	1	GA5000	
S2-BH243	1	26/06/2023 13:32	Peak Oxygen	19.5	%	1	GA5000	
S2-BH243	1	26/06/2023 13:32	Differential Pressure	0	mbar	4	GA5000	
S2-BH243	1	26/06/2023 13:32	Carbon Monoxide	9	ppm	2	GA5000	
S2-BH243	1	26/06/2023 13:32	Steady Carbon Dioxide	1.1	%	0.5	GA5000	
S2-BH243	1	26/06/2023 13:32	Peak Carbon Dioxide	1.1	%	0.5	GA5000	
S2-BH243	1	26/06/2023 13:32	Barometric Pressure	997	mbar	5	GA5000	
S2-BH243	1	26/06/2023 13:40	Gas Flow Rate	4.9	l/hr	0.3	GA5000	
S2-BH243	1	26/06/2023 13:44	Water Level	3.66	m	0.01	Dip Meter	Base dipped at 5.88m
S2-BH243	2	26/06/2023 13:45	Steady Methane	1.6	%	0.5	GA5000	
S2-BH243	2	26/06/2023 13:45	Peak Methane	1.6	%	0.5	GA5000	
S2-BH243	2	26/06/2023 13:45	Hydrogen Sulphide	2	ppm	1.5	GA5000	
S2-BH243	2	26/06/2023 13:45	Steady Oxygen	20.3	%	1	GA5000	
S2-BH243	2	26/06/2023 13:45	Peak Oxygen	20.3	%	1	GA5000	
S2-BH243	2	26/06/2023 13:45	Differential Pressure	0.07	mbar	4	GA5000	
S2-BH243	2	26/06/2023 13:45	Peak Carbon Dioxide	0.4	%	0.5	GA5000	
S2-BH243	2	26/06/2023 13:45	Barometric Pressure	997	mbar	5	GA5000	
S2-BH243	2	26/06/2023 13:45	Steady Carbon Dioxide	0.4	%	0.5	GA5000	
S2-BH243	2	26/06/2023 13:45	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH243	2	26/06/2023 13:48	Gas Flow Rate	0.1	l/hr	0.3	GA5000	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH243	2	26/06/2023 13:50	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 2.93m
S2-BH243	1	24/07/2023 15:08	Peak Oxygen	20.5	%	1	GA5000 SN:G508511	
S2-BH243	1	24/07/2023 15:08	Steady Oxygen	20.5	%	1	GA5000 SN:G508511	
S2-BH243	1	24/07/2023 15:08	Gas Flow Rate	4.4	l/hr	0.3	GA5000 SN:G508511	
S2-BH243	1	24/07/2023 15:08	Carbon Monoxide	7	ppm	2	GA5000 SN:G508511	
S2-BH243	1	24/07/2023 15:08	Differential Pressure	7.22	mbar	4	GA5000 SN:G508511	
S2-BH243	1	24/07/2023 15:08	Hydrogen Sulphide	1	ppm	1.5	GA5000 SN:G508511	
S2-BH243	1	24/07/2023 15:08	Steady Carbon Dioxide	1	%	0.5	GA5000 SN:G508511	
S2-BH243	1	24/07/2023 15:08	Barometric Pressure	984	mbar	5	GA5000 SN:G508511	
S2-BH243	1	24/07/2023 15:08	Peak Carbon Dioxide	1.1	%	0.5	GA5000 SN:G508511	
S2-BH243	1	24/07/2023 15:16	Water Level	3.18	m	0.01	Dip Meter	Base dipped at 5.93m
S2-BH243	2	24/07/2023 15:17	Steady Oxygen	16.8	%	1	GA5000 SN:G508511	
S2-BH243	2	24/07/2023 15:17	Peak Oxygen	16.8	%	1	GA5000 SN:G508511	
S2-BH243	2	24/07/2023 15:17	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH243	2	24/07/2023 15:17	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH243	2	24/07/2023 15:17	Peak Carbon Dioxide	3.5	%	0.5	GA5000 SN:G508511	
S2-BH243	2	24/07/2023 15:17	Barometric Pressure	984	mbar	5	GA5000 SN:G508511	
S2-BH243	2	24/07/2023 15:17	Steady Carbon Dioxide	3.5	%	0.5	GA5000 SN:G508511	
S2-BH243	2	24/07/2023 15:17	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH243	2	24/07/2023 15:17	Differential Pressure	0.09	mbar	4	GA5000 SN:G508511	
S2-BH243	2	24/07/2023 15:17	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH243	2	24/07/2023 15:17	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G508511	
S2-BH243	2	24/07/2023 15:20	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 2.98m
S2-BH243	1	21/08/2023 14:31	Steady Oxygen	20.4	%	1	GA5000 SN:G504748	
S2-BH243	1	21/08/2023 14:31	Peak Oxygen	20.4	%	1	GA5000 SN:G504748	
S2-BH243	1	21/08/2023 14:31	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH243	1	21/08/2023 14:31	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH243	1	21/08/2023 14:31	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH243	1	21/08/2023 14:31	Carbon Monoxide	8	ppm	2	GA5000 SN:G504748	
S2-BH243	1	21/08/2023 14:31	Gas Flow Rate	-0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH243	1	21/08/2023 14:31	Differential Pressure	-0.05	mbar	4	GA5000 SN:G504748	
S2-BH243	1	21/08/2023 14:31	Steady Carbon Dioxide	0.8	%	0.5	GA5000 SN:G504748	
S2-BH243	1	21/08/2023 14:31	Barometric Pressure	97	mbar	5	GA5000 SN:G504748	
S2-BH243	1	21/08/2023 14:31	Peak Carbon Dioxide	0.8	%	0.5	GA5000 SN:G504748	
S2-BH243	2	21/08/2023 14:35	Water Level		m	0.01	Dip Meter	Base dipped dry at 2.93m
S2-BH243	1	21/08/2023 14:43	Water Level	2.98	m	0.01	Dip Meter	Base dipped at 5.86m
S2-BH243	2	21/08/2023 14:45	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH243	2	21/08/2023 14:45	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH243	2	21/08/2023 14:45	Peak Oxygen	17.5	%	1	GA5000 SN:G504748	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH243	2	21/08/2023 14:45	Steady Oxygen	17.7	%	1	GA5000 SN:G504748	
S2-BH243	2	21/08/2023 14:45	Peak Carbon Dioxide	2.4	%	0.5	GA5000 SN:G504748	
S2-BH243	2	21/08/2023 14:45	Barometric Pressure	997	mbar	5	GA5000 SN:G504748	
S2-BH243	2	21/08/2023 14:45	Steady Carbon Dioxide	2.3	%	0.5	GA5000 SN:G504748	
S2-BH243	2	21/08/2023 14:45	Differential Pressure	0.14	mbar	4	GA5000 SN:G504748	
S2-BH243	2	21/08/2023 14:45	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH243	2	21/08/2023 14:45	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH243	2	21/08/2023 14:45	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH244	1	26/06/2023 12:58	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH244	1	26/06/2023 12:58	Gas Flow Rate	0.2	l/hr	0.3	GA5000	
S2-BH244	1	26/06/2023 12:58	Differential Pressure	0.05	mbar	4	GA5000	
S2-BH244	1	26/06/2023 12:58	Steady Carbon Dioxide	4.8	%	0.5	GA5000	
S2-BH244	1	26/06/2023 12:58	Barometric Pressure	996	mbar	5	GA5000	
S2-BH244	1	26/06/2023 12:58	Peak Carbon Dioxide	4.8	%	0.5	GA5000	
S2-BH244	1	26/06/2023 12:58	Peak Oxygen	16.9	%	1	GA5000	
S2-BH244	1	26/06/2023 12:58	Steady Oxygen	16.9	%	1	GA5000	
S2-BH244	1	26/06/2023 12:58	Steady Methane	1.7	%	0.5	GA5000	
S2-BH244	1	26/06/2023 12:58	Peak Methane	1.7	%	0.5	GA5000	
S2-BH244	1	26/06/2023 12:58	Hydrogen Sulphide	1	ppm	1.5	GA5000	
S2-BH244	1	26/06/2023 12:59	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 3.49m
S2-BH244	2	26/06/2023 13:09	Steady Methane	1.7	%	0.5	GA5000	
S2-BH244	2	26/06/2023 13:09	Peak Methane	1.7	%	0.5	GA5000	
S2-BH244	2	26/06/2023 13:09	Peak Oxygen	15.8	%	1	GA5000	
S2-BH244	2	26/06/2023 13:09	Steady Oxygen	17.8	%	1	GA5000	
S2-BH244	2	26/06/2023 13:09	Peak Carbon Dioxide	3.6	%	0.5	GA5000	
S2-BH244	2	26/06/2023 13:09	Barometric Pressure	996	mbar	5	GA5000	
S2-BH244	2	26/06/2023 13:09	Carbon Monoxide	1	ppm	2	GA5000	
S2-BH244	2	26/06/2023 13:09	Steady Carbon Dioxide	3.3	%	0.5	GA5000	
S2-BH244	2	26/06/2023 13:09	Differential Pressure	0	mbar	4	GA5000	
S2-BH244	2	26/06/2023 13:09	Hydrogen Sulphide	2	ppm	1.5	GA5000	
S2-BH244	2	26/06/2023 13:09	Gas Flow Rate	0.2	l/hr	0.3	GA5000	
S2-BH244	2	26/06/2023 13:17	Water Level	3.39	m	0.01	Dip Meter	Base dipped at 9.38m
S2-BH244	1	24/07/2023 11:12	Steady Methane	0	%	0.5	GA5000 G508511	
S2-BH244	1	24/07/2023 11:12	Peak Methane	0.1	%	0.5	GA5000 G508511	
S2-BH244	1	24/07/2023 11:12	Steady Oxygen	16.6	%	1	GA5000 G508511	
S2-BH244	1	24/07/2023 11:12	Peak Oxygen	16.3	%	1	GA5000 G508511	
S2-BH244	1	24/07/2023 11:12	Gas Flow Rate	0.1	l/hr	0.3	GA5000 G508511	
S2-BH244	1	24/07/2023 11:12	Carbon Monoxide	0	ppm	2	GA5000 G508511	
S2-BH244	1	24/07/2023 11:12	Hydrogen Sulphide	0	ppm	1.5	GA5000 G508511	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH244	1	24/07/2023 11:12	Differential Pressure	0	mbar	4	GA5000 G508511	
S2-BH244	1	24/07/2023 11:12	Steady Carbon Dioxide	4.2	%	0.5	GA5000 G508511	
S2-BH244	1	24/07/2023 11:12	Peak Carbon Dioxide	4.2	%	0.5	GA5000 G508511	
S2-BH244	1	24/07/2023 11:12	Barometric Pressure	983	mbar	5	GA5000 G508511	
S2-BH244	1	24/07/2023 11:19	Water Level	3	m	0.01	Dip Meter	Base dipped at 3.57m
S2-BH244	2	24/07/2023 11:21	Hydrogen Sulphide	0	ppm	1.5	GA5000 G508511	
S2-BH244	2	24/07/2023 11:21	Peak Methane	0	%	0.5	GA5000 G508511	
S2-BH244	2	24/07/2023 11:21	Steady Methane	0	%	0.5	GA5000 G508511	
S2-BH244	2	24/07/2023 11:21	Steady Oxygen	19.6	%	1	GA5000 G508511	
S2-BH244	2	24/07/2023 11:21	Peak Oxygen	18.8	%	1	GA5000 G508511	
S2-BH244	2	24/07/2023 11:21	Barometric Pressure	983	mbar	5	GA5000 G508511	
S2-BH244	2	24/07/2023 11:21	Steady Carbon Dioxide	2	%	0.5	GA5000 G508511	
S2-BH244	2	24/07/2023 11:21	Carbon Monoxide	0	ppm	2	GA5000 G508511	
S2-BH244	2	24/07/2023 11:21	Peak Carbon Dioxide	2.6	%	0.5	GA5000 G508511	
S2-BH244	2	24/07/2023 11:21	Differential Pressure	0.07	mbar	4	GA5000 G508511	
S2-BH244	2	24/07/2023 11:21	Gas Flow Rate	-0.3	l/hr	0.3	GA5000 G508511	
S2-BH244	2	24/07/2023 11:23	Water Level	2.9	m	0.01	Dip Meter	Base dipped at 9.25m
S2-BH244	1	21/08/2023 14:29	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH244	1	21/08/2023 14:29	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH244	1	21/08/2023 14:29	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH244	1	21/08/2023 14:29	Steady Oxygen	14	%	1	GA5000 SN:G508511	
S2-BH244	1	21/08/2023 14:29	Peak Oxygen	14	%	1	GA5000 SN:G508511	
S2-BH244	1	21/08/2023 14:29	Gas Flow Rate	0.3	l/hr	0.3	GA5000 SN:G508511	
S2-BH244	1	21/08/2023 14:29	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH244	1	21/08/2023 14:29	Differential Pressure	0.02	mbar	4	GA5000 SN:G508511	
S2-BH244	1	21/08/2023 14:29	Peak Carbon Dioxide	3.9	%	0.5	GA5000 SN:G508511	
S2-BH244	1	21/08/2023 14:29	Steady Carbon Dioxide	3.9	%	0.5	GA5000 SN:G508511	
S2-BH244	1	21/08/2023 14:29	Barometric Pressure	996	mbar	5	GA5000 SN:G508511	
S2-BH244	2	21/08/2023 14:35	Barometric Pressure	996	mbar	5	GA5000 SN:G508511	
S2-BH244	2	21/08/2023 14:35	Peak Carbon Dioxide	1.8	%	0.5	GA5000 SN:G508511	
S2-BH244	2	21/08/2023 14:35	Steady Carbon Dioxide	1.8	%	0.5	GA5000 SN:G508511	
S2-BH244	2	21/08/2023 14:35	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511	
S2-BH244	2	21/08/2023 14:35	Differential Pressure	0.17	mbar	4	GA5000 SN:G508511	
S2-BH244	2	21/08/2023 14:35	Gas Flow Rate	3.5	l/hr	0.3	GA5000 SN:G508511	
S2-BH244	2	21/08/2023 14:35	Steady Oxygen	17.8	%	1	GA5000 SN:G508511	
S2-BH244	2	21/08/2023 14:35	Peak Oxygen	17.8	%	1	GA5000 SN:G508511	
S2-BH244	2	21/08/2023 14:35	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH244	2	21/08/2023 14:35	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH244	2	21/08/2023 14:35	Steady Methane	0	%	0.5	GA5000 SN:G508511	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH244	1	21/08/2023 14:43	Water Level	2.65	m	0.01	Dip Meter	Base dipped at 3.42m
S2-BH244	2	21/08/2023 14:45	Water Level	2.77	m	0.01	Dip Meter	Base dipped at 9.44m
S2-BH245	1	27/06/2023 13:26	Barometric Pressure	995	mbar	5	GA5000	
S2-BH245	1	27/06/2023 13:27	Peak Carbon Dioxide	4.3	%	0.5	GA5000	
S2-BH245	1	27/06/2023 13:27	Steady Carbon Dioxide	4.3	%	0.5	GA5000	
S2-BH245	1	27/06/2023 13:27	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH245	1	27/06/2023 13:27	Gas Flow Rate	0.2	l/hr	0.3	GA5000	
S2-BH245	1	27/06/2023 13:27	Differential Pressure	-0.03	mbar	4	GA5000	
S2-BH245	1	27/06/2023 13:27	Steady Methane	1.7	%	0.5	GA5000	
S2-BH245	1	27/06/2023 13:27	Hydrogen Sulphide	0	ppm	1.5	GA5000	
S2-BH245	1	27/06/2023 13:27	Peak Methane	1.7	%	0.5	GA5000	
S2-BH245	1	27/06/2023 13:27	Peak Oxygen	13.8	%	1	GA5000	
S2-BH245	1	27/06/2023 13:27	Steady Oxygen	13.8	%	1	GA5000	
S2-BH245	1	27/06/2023 13:34	Water Level	3.6	m	0.01	Dip Meter	Base dipped at 3.84m
S2-BH245	1	25/07/2023 11:00	Steady Methane	0	%	0.5	GA5000 G508511	
S2-BH245	1	25/07/2023 11:00	Steady Methane	0	%	0.5	GA5000 G508511	
S2-BH245	1	25/07/2023 11:00	Hydrogen Sulphide	0	ppm	1.5	GA5000 G508511	
S2-BH245	1	25/07/2023 11:00	Steady Oxygen	11.5	%	1	GA5000 G508511	
S2-BH245	1	25/07/2023 11:00	Peak Oxygen	11.5	%	1	GA5000 G508511	
S2-BH245	1	25/07/2023 11:00	Differential Pressure	-0.12	mbar	4	GA5000 G508511	
S2-BH245	1	25/07/2023 11:00	Gas Flow Rate	0	l/hr	0.3	GA5000 G508511	
S2-BH245	1	25/07/2023 11:00	Steady Carbon Dioxide	4.1	%	0.5	GA5000 G508511	
S2-BH245	1	25/07/2023 11:00	Carbon Monoxide	0	ppm	2	GA5000 G508511	
S2-BH245	1	25/07/2023 11:00	Peak Carbon Dioxide	4.1	%	0.5	GA5000 G508511	
S2-BH245	1	25/07/2023 11:00	Barometric Pressure	987	mbar	5	GA5000 G508511	
S2-BH245	1	25/07/2023 11:05	Water Level	2.83	m	0.01	Dip Meter	Base dipped at 3.75m. Silted at base.
S2-BH245	1	22/08/2023 10:35	Steady Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH245	1	22/08/2023 10:35	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH245	1	22/08/2023 10:35	Peak Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH245	1	22/08/2023 10:35	Peak Oxygen	11.3	%	1	GA5000 SN:G508511	
S2-BH245	1	22/08/2023 10:35	Steady Oxygen	11.3	%	1	GA5000 SN:G508511	
S2-BH245	1	22/08/2023 10:35	Barometric Pressure	994	mbar	5	GA5000 SN:G508511	
S2-BH245	1	22/08/2023 10:35	Peak Carbon Dioxide	3.1	%	0.5	GA5000 SN:G508511	
S2-BH245	1	22/08/2023 10:35	Steady Carbon Dioxide	3.1	%	0.5	GA5000 SN:G508511	
S2-BH245	1	22/08/2023 10:35	Gas Flow Rate	0.4	l/hr	0.3	GA5000 SN:G508511	
S2-BH245	1	22/08/2023 10:35	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH245	1	22/08/2023 10:35	Differential Pressure	0.14	mbar	4	GA5000 SN:G508511	
S2-BH245	1	22/08/2023 10:49	Water Level	3.16	m	0.01	Dip Meter	Base dipped at 3.82m
S2-BH246	1	26/06/2023 10:49	Steady Methane	1.7	%	0.5	GA5000	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH246	1	26/06/2023 10:49	Peak Methane	1.7	%	0.5	GA5000	
S2-BH246	1	26/06/2023 10:49	Steady Oxygen	16.1	%	1	GA5000	
S2-BH246	1	26/06/2023 10:49	Peak Oxygen	16	%	1	GA5000	
S2-BH246	1	26/06/2023 10:49	Differential Pressure	0.1	mbar	4	GA5000	
S2-BH246	1	26/06/2023 10:49	Hydrogen Sulphide	1	ppm	1.5	GA5000	
S2-BH246	1	26/06/2023 10:49	Gas Flow Rate	0.2	l/hr	0.3	GA5000	
S2-BH246	1	26/06/2023 10:49	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH246	1	26/06/2023 10:49	Steady Carbon Dioxide	3	%	0.5	GA5000	
S2-BH246	1	26/06/2023 10:49	Peak Carbon Dioxide	3.2	%	0.5	GA5000	
S2-BH246	1	26/06/2023 10:49	Barometric Pressure	995	mbar	5	GA5000	
S2-BH246	1	26/06/2023 10:55	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 2.38m
S2-BH246	2	26/06/2023 10:56	Steady Methane	1.7	%	0.5	GA5000	
S2-BH246	2	26/06/2023 10:56	Peak Methane	1.7	%	0.5	GA5000	
S2-BH246	2	26/06/2023 10:56	Steady Oxygen	13.5	%	1	GA5000	
S2-BH246	2	26/06/2023 10:56	Peak Oxygen	13.5	%	1	GA5000	
S2-BH246	2	26/06/2023 10:56	Barometric Pressure	996	mbar	5	GA5000	
S2-BH246	2	26/06/2023 10:56	Peak Carbon Dioxide	5.2	%	0.5	GA5000	
S2-BH246	2	26/06/2023 10:56	Steady Carbon Dioxide	5.2	%	0.5	GA5000	
S2-BH246	2	26/06/2023 10:56	Carbon Monoxide	1	ppm	2	GA5000	
S2-BH246	2	26/06/2023 10:56	Hydrogen Sulphide	1	ppm	1.5	GA5000	
S2-BH246	2	26/06/2023 10:56	Differential Pressure	0.07	mbar	4	GA5000	
S2-BH246	2	26/06/2023 10:59	Gas Flow Rate	0.2	l/hr	0.3	GA5000	
S2-BH246	2	26/06/2023 11:02	Water Level	3.45	m	0.01	Dip Meter	Base dipped at 7.87m.
S2-BH246	1	24/07/2023 13:51	Steady Oxygen	15.8	%	1	GA5000 SN:G508511	
S2-BH246	1	24/07/2023 13:51	Peak Oxygen	15.6	%	1	GA5000 SN:G508511	
S2-BH246	1	24/07/2023 13:51	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH246	1	24/07/2023 13:51	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH246	1	24/07/2023 13:51	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH246	1	24/07/2023 13:51	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH246	1	24/07/2023 13:51	Differential Pressure	-0.05	mbar	4	GA5000 SN:G508511	
S2-BH246	1	24/07/2023 13:51	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH246	1	24/07/2023 13:51	Steady Carbon Dioxide	3.9	%	0.5	GA5000 SN:G508511	
S2-BH246	1	24/07/2023 13:51	Peak Carbon Dioxide	4.5	%	0.5	GA5000 SN:G508511	
S2-BH246	1	24/07/2023 13:51	Barometric Pressure	984	mbar	5	GA5000 SN:G508511	
S2-BH246	1	24/07/2023 13:56	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 2.30m
S2-BH246	2	24/07/2023 13:58	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH246	2	24/07/2023 13:58	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH246	2	24/07/2023 13:58	Peak Oxygen	15.8	%	1	GA5000 SN:G508511	
S2-BH246	2	24/07/2023 13:58	Steady Oxygen	15.8	%	1	GA5000 SN:G508511	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH246	2	24/07/2023 13:58	Barometric Pressure	984	mbar	5	GA5000 SN:G508511	
S2-BH246	2	24/07/2023 13:58	Steady Carbon Dioxide	5.1	%	0.5	GA5000 SN:G508511	
S2-BH246	2	24/07/2023 13:58	Peak Carbon Dioxide	5.2	%	0.5	GA5000 SN:G508511	
S2-BH246	2	24/07/2023 13:58	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH246	2	24/07/2023 13:58	Differential Pressure	-1.5	mbar	4	GA5000 SN:G508511	
S2-BH246	2	24/07/2023 13:58	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511	
S2-BH246	2	24/07/2023 13:58	Gas Flow Rate	5.8	l/hr	0.3	GA5000 SN:G508511	
S2-BH246	2	24/07/2023 14:03	Water Level	3.08	m	0.01	Dip Meter	Base dipped at 7.86m
S2-BH246	1	21/08/2023 13:34	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH246	1	21/08/2023 13:34	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH246	1	21/08/2023 13:34	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH246	1	21/08/2023 13:34	Steady Oxygen	13.9	%	1	GA5000 SN:G508511	
S2-BH246	1	21/08/2023 13:34	Peak Oxygen	13.9	%	1	GA5000 SN:G508511	
S2-BH246	1	21/08/2023 13:34	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G508511	
S2-BH246	1	21/08/2023 13:34	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH246	1	21/08/2023 13:34	Differential Pressure	0.07	mbar	4	GA5000 SN:G508511	
S2-BH246	1	21/08/2023 13:34	Steady Carbon Dioxide	4.3	%	0.5	GA5000 SN:G508511	
S2-BH246	1	21/08/2023 13:34	Peak Carbon Dioxide	4.3	%	0.5	GA5000 SN:G508511	
S2-BH246	1	21/08/2023 13:34	Barometric Pressure	996	mbar	5	GA5000 SN:G508511	
S2-BH246	2	21/08/2023 13:41	Barometric Pressure	996	mbar	5	GA5000 SN:G508511	
S2-BH246	2	21/08/2023 13:41	Peak Carbon Dioxide	3.2	%	0.5	GA5000 SN:G508511	
S2-BH246	2	21/08/2023 13:41	Steady Carbon Dioxide	3.2	%	0.5	GA5000 SN:G508511	
S2-BH246	2	21/08/2023 13:41	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH246	2	21/08/2023 13:41	Differential Pressure	11.1	mbar	4	GA5000 SN:G508511	
S2-BH246	2	21/08/2023 13:41	Carbon Monoxide	4	ppm	2	GA5000 SN:G508511	
S2-BH246	2	21/08/2023 13:41	Gas Flow Rate	5.7	l/hr	0.3	GA5000 SN:G508511	
S2-BH246	2	21/08/2023 13:41	Steady Oxygen	17	%	1	GA5000 SN:G508511	
S2-BH246	2	21/08/2023 13:41	Peak Oxygen	17	%	1	GA5000 SN:G508511	
S2-BH246	2	21/08/2023 13:41	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH246	2	21/08/2023 13:41	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH246	1	21/08/2023 13:43	Water Level		m	0.01	Dip Meter	Base dipped at 2.50m DRY
S2-BH246	2	21/08/2023 13:44	Water Level	2.96	m	0.01	Dip Meter	Base dipped at 8.01m
S2-BH247	1		Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 8.82m
S2-BH247	2	26/06/2023 09:59	Peak Methane	1.7	%	0.5	GA5000	
S2-BH247	2	26/06/2023 09:59	Steady Oxygen	19.2	%	1	GA5000	
S2-BH247	2	26/06/2023 09:59	Peak Oxygen	19.2	%	1	GA5000	
S2-BH247	2	26/06/2023 09:59	Gas Flow Rate	0.02	l/hr	0.3	GA5000	
S2-BH247	2	26/06/2023 09:59	Differential Pressure	-0.009	mbar	4	GA5000	
S2-BH247	2	26/06/2023 09:59	Hydrogen Sulphide	1	ppm	1.5	GA5000	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH247	2	26/06/2023 09:59	Steady Carbon Dioxide	1.4	%	0.5	GA5000	
S2-BH247	2	26/06/2023 09:59	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH247	2	26/06/2023 09:59	Peak Carbon Dioxide	1.4	%	0.5	GA5000	
S2-BH247	2	26/06/2023 09:59	Barometric Pressure	995	mbar	5	GA5000	
S2-BH247	2	26/06/2023 10:03	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 1.99m
S2-BH247	1	26/06/2023 10:04	Peak Methane	1.7	%	0.5	GA5000	
S2-BH247	1	26/06/2023 10:04	Steady Methane	1.7	%	0.5	GA5000	
S2-BH247	1	26/06/2023 10:04	Hydrogen Sulphide	1	ppm	1.5	GA5000	
S2-BH247	1	26/06/2023 10:04	Peak Oxygen	20.3	%	1	GA5000	
S2-BH247	1	26/06/2023 10:04	Steady Oxygen	20.8	%	1	GA5000	
S2-BH247	1	26/06/2023 10:04	Barometric Pressure	995	mbar	5	GA5000	
S2-BH247	1	26/06/2023 10:04	Peak Carbon Dioxide	1.7	%	0.5	GA5000	
S2-BH247	1	26/06/2023 10:04	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH247	1	26/06/2023 10:04	Steady Carbon Dioxide	1.7	%	0.5	GA5000	
S2-BH247	1	26/06/2023 10:04	Differential Pressure	0.03	mbar	4	GA5000	
S2-BH247	1	26/06/2023 10:04	Gas Flow Rate	0.1	l/hr	0.3	GA5000	
S2-BH247	1	25/07/2023 14:08	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH247	1	25/07/2023 14:08	Carbon Monoxide	2	ppm	2	GA5000 SN:G508511	
S2-BH247	1	25/07/2023 14:08	Differential Pressure	1.19	mbar	4	GA5000 SN:G508511	
S2-BH247	1	25/07/2023 14:08	Hydrogen Sulphide	1	ppm	1.5	GA5000 SN:G508511	
S2-BH247	1	25/07/2023 14:08	Steady Carbon Dioxide	6.1	%	0.5	GA5000 SN:G508511	
S2-BH247	1	25/07/2023 14:08	Peak Carbon Dioxide	6.2	%	0.5	GA5000 SN:G508511	
S2-BH247	1	25/07/2023 14:08	Barometric Pressure	987	mbar	5	GA5000 SN:G508511	
S2-BH247	1	25/07/2023 14:08	Steady Oxygen	5.3	%	1	GA5000 SN:G508511	
S2-BH247	1	25/07/2023 14:08	Peak Oxygen	5.3	%	1	GA5000 SN:G508511	
S2-BH247	1	25/07/2023 14:08	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH247	1	25/07/2023 14:08	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:14	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:14	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:14	Peak Oxygen	14.7	%	1	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:14	Steady Oxygen	18.3	%	1	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:14	Barometric Pressure	988	mbar	5	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:14	Peak Carbon Dioxide	0.9	%	0.5	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:14	Steady Carbon Dioxide	0.8	%	0.5	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:14	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:14	Differential Pressure	0	mbar	4	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:14	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:14	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:21	Water Level	1.28	m	0.01	Dip Meter	Base dipped at 1.99m

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH247	1	25/07/2023 14:29	Water Level	8.36	m	0.01	Dip Meter	Base dipped at 8.84m
S2-BH247	2	22/08/2023 10:58	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH247	2	22/08/2023 10:58	Steady Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH247	2	22/08/2023 10:58	Steady Oxygen	18.5	%	1	GA5000 SN:G504748	
S2-BH247	2	22/08/2023 10:58	Peak Oxygen	18.5	%	1	GA5000 SN:G504748	
S2-BH247	2	22/08/2023 10:58	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH247	2	22/08/2023 10:58	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH247	2	22/08/2023 10:58	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH247	2	22/08/2023 10:58	Differential Pressure	-0.07	mbar	4	GA5000 SN:G504748	
S2-BH247	2	22/08/2023 10:58	Steady Carbon Dioxide	0.8	%	0.5	GA5000 SN:G504748	
S2-BH247	2	22/08/2023 10:58	Peak Carbon Dioxide	0.8	%	0.5	GA5000 SN:G504748	
S2-BH247	2	22/08/2023 10:58	Barometric Pressure	994	mbar	5	GA5000 SN:G504748	
S2-BH247	2	22/08/2023 11:04	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 1.96m
S2-BH247	1	22/08/2023 11:06	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH247	1	22/08/2023 11:06	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH247	1	22/08/2023 11:06	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH247	1	22/08/2023 11:06	Steady Oxygen	1	%	1	GA5000 SN:G504748	
S2-BH247	1	22/08/2023 11:06	Peak Oxygen	1	%	1	GA5000 SN:G504748	
S2-BH247	1	22/08/2023 11:06	Barometric Pressure	994	mbar	5	GA5000 SN:G504748	
S2-BH247	1	22/08/2023 11:06	Peak Carbon Dioxide	6.2	%	0.5	GA5000 SN:G504748	
S2-BH247	1	22/08/2023 11:06	Steady Carbon Dioxide	6.2	%	0.5	GA5000 SN:G504748	
S2-BH247	1	22/08/2023 11:06	Differential Pressure	-0.14	mbar	4	GA5000 SN:G504748	
S2-BH247	1	22/08/2023 11:06	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH247	1	22/08/2023 11:06	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH248	2	26/06/2023 16:34	Gas Flow Rate	0.2	l/hr	0.3	GA5000	
S2-BH248	2	26/06/2023 16:34	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH248	2	26/06/2023 16:34	Differential Pressure	0	mbar	4	GA5000	
S2-BH248	2	26/06/2023 16:34	Hydrogen Sulphide	2	ppm	1.5	GA5000	
S2-BH248	2	26/06/2023 16:34	Steady Carbon Dioxide	2.8	%	0.5	GA5000	
S2-BH248	2	26/06/2023 16:34	Peak Carbon Dioxide	3	%	0.5	GA5000	
S2-BH248	2	26/06/2023 16:34	Barometric Pressure	997	mbar	5	GA5000	
S2-BH248	2	26/06/2023 16:34	Steady Oxygen	19	%	1	GA5000	
S2-BH248	2	26/06/2023 16:34	Peak Oxygen	16.1	%	1	GA5000	
S2-BH248	2	26/06/2023 16:34	Peak Methane	1.6	%	0.5	GA5000	
S2-BH248	2	26/06/2023 16:34	Steady Methane	1.6	%	0.5	GA5000	
S2-BH248	2	26/06/2023 16:36	Water Level		m	0.01	Dip Meter	Base dipped at 3.90m Dry.
S2-BH248	1	26/06/2023 16:38	Steady Methane	1.9	%	0.5	GA5000	
S2-BH248	1	26/06/2023 16:38	Hydrogen Sulphide	2	ppm	1.5	GA5000	
S2-BH248	1	26/06/2023 16:38	Peak Methane	1.9	%	0.5	GA5000	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH248	1	26/06/2023 16:38	Peak Oxygen	20.1	%	1	GA5000	
S2-BH248	1	26/06/2023 16:38	Steady Oxygen	19.9	%	1	GA5000	
S2-BH248	1	26/06/2023 16:38	Barometric Pressure	997	mbar	5	GA5000	
S2-BH248	1	26/06/2023 16:38	Peak Carbon Dioxide	1.4	%	0.5	GA5000	
S2-BH248	1	26/06/2023 16:38	Steady Carbon Dioxide	1.4	%	0.5	GA5000	
S2-BH248	1	26/06/2023 16:38	Differential Pressure	0.02	mbar	4	GA5000	
S2-BH248	1	26/06/2023 16:38	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH248	1	26/06/2023 16:41	Gas Flow Rate	-0.1	l/hr	0.3	GA5000 SN:G504748 OR	
S2-BH248	1	26/06/2023 16:43	Water Level	6.3	m	0.01	Dip Meter	Base dipped at 9.01m
S2-BH248	1	25/07/2023 14:38	Peak Methane	0.8	%	0.5	GA5000 SN:G504748	
S2-BH248	1	25/07/2023 14:38	Steady Methane	0.8	%	0.5	GA5000 SN:G504748	
S2-BH248	1	25/07/2023 14:38	Steady Oxygen	19.1	%	1	GA5000 SN:G504748	
S2-BH248	1	25/07/2023 14:38	Peak Oxygen	19.1	%	1	GA5000 SN:G504748	
S2-BH248	1	25/07/2023 14:38	Gas Flow Rate	3.9	l/hr	0.3	GA5000 SN:G504748	
S2-BH248	1	25/07/2023 14:38	Differential Pressure	-0.07	mbar	4	GA5000 SN:G504748	
S2-BH248	1	25/07/2023 14:38	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH248	1	25/07/2023 14:38	Carbon Monoxide	3	ppm	2	GA5000 SN:G504748	
S2-BH248	1	25/07/2023 14:38	Steady Carbon Dioxide	2	%	0.5	GA5000 SN:G504748	
S2-BH248	1	25/07/2023 14:38	Barometric Pressure	986	mbar	5	GA5000 SN:G504748	
S2-BH248	1	25/07/2023 14:38	Peak Carbon Dioxide	2	%	0.5	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:45	Peak Carbon Dioxide	1.7	%	0.5	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:45	Barometric Pressure	987	mbar	5	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:45	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:45	Steady Carbon Dioxide	1.7	%	0.5	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:45	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:45	Differential Pressure	0.05	mbar	4	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:45	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:45	Steady Oxygen	19	%	1	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:45	Peak Oxygen	19	%	1	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:45	Peak Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:45	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:48	Water Level		m	0.01	Dip Meter	Base dipped at 3.90m Dry.
S2-BH248	1	25/07/2023 14:49	Water Level	6.1	m	0.01	Dip Meter	Base dipped at 9.26m
S2-BH248	2	25/08/2023 10:48	Steady Oxygen	18.9	%	1	GA5000 SN:G504748	
S2-BH248	2	25/08/2023 10:48	Peak Oxygen	18.9	%	1	GA5000 SN:G504748	
S2-BH248	2	25/08/2023 10:48	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH248	2	25/08/2023 10:48	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH248	2	25/08/2023 10:48	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH248	2	25/08/2023 10:48	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH248	2	25/08/2023 10:48	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH248	2	25/08/2023 10:48	Differential Pressure	-0.03	mbar	4	GA5000 SN:G504748	
S2-BH248	2	25/08/2023 10:48	Steady Carbon Dioxide	2.1	%	0.5	GA5000 SN:G504748	
S2-BH248	2	25/08/2023 10:48	Peak Carbon Dioxide	2.1	%	0.5	GA5000 SN:G504748	
S2-BH248	2	25/08/2023 10:48	Barometric Pressure	984	mbar	5	GA5000 SN:G504748	
S2-BH248	1	25/08/2023 10:53	Peak Carbon Dioxide	1.7	%	0.5	GA5000 SN:G504748	
S2-BH248	1	25/08/2023 10:53	Barometric Pressure	984	mbar	5	GA5000 SN:G504748	
S2-BH248	1	25/08/2023 10:53	Steady Carbon Dioxide	1.1	%	0.5	GA5000 SN:G504748	
S2-BH248	1	25/08/2023 10:53	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH248	1	25/08/2023 10:53	Differential Pressure	0.14	mbar	4	GA5000 SN:G504748	
S2-BH248	1	25/08/2023 10:53	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH248	1	25/08/2023 10:53	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH248	1	25/08/2023 10:53	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH248	1	25/08/2023 10:53	Steady Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH248	1	25/08/2023 10:53	Peak Oxygen	19.7	%	1	GA5000 SN:G504748	
S2-BH248	1	25/08/2023 10:53	Steady Oxygen	19.9	%	1	GA5000 SN:G504748	
S2-BH248	2	25/08/2023 11:00	Water Level		m	0.01	Dip Meter	Base dipped dry at 3.90m
S2-BH248	1	25/08/2023 11:01	Water Level	6	m	0.01	Dip Meter	Base dipped at 8.95m
S2-BH249	1	26/06/2023 05:02	Steady Oxygen	8.9	%	1	GA5000	
S2-BH249	1	26/06/2023 05:02	Peak Oxygen	8.9	%	1	GA5000	
S2-BH249	1	26/06/2023 05:02	Steady Carbon Dioxide	10.2	%	0.5	GA5000	
S2-BH249	1	26/06/2023 14:02	Peak Carbon Dioxide	10.2	%	0.5	GA5000	
S2-BH249	1	26/06/2023 14:02	Barometric Pressure	996	mbar	5	GA5000	
S2-BH249	1	26/06/2023 14:02	Carbon Monoxide	3	ppm	2	GA5000	
S2-BH249	1	26/06/2023 14:02	Differential Pressure	-0.02	mbar	4	GA5000	
S2-BH249	1	26/06/2023 14:02	Steady Methane	1.6	%	0.5	GA5000	
S2-BH249	1	26/06/2023 14:02	Peak Methane	1.7	%	0.5	GA5000	
S2-BH249	1	26/06/2023 14:02	Hydrogen Sulphide	1	ppm	1.5	GA5000	
S2-BH249	1	26/06/2023 14:05	Gas Flow Rate	0.2	l/hr	0.3	GA5000	
S2-BH249	2	26/06/2023 14:13	Carbon Monoxide	1	ppm	2	GA5000	
S2-BH249	2	26/06/2023 14:13	Differential Pressure	-0.17	mbar	4	GA5000	
S2-BH249	2	26/06/2023 14:13	Hydrogen Sulphide	2	ppm	1.5	GA5000	
S2-BH249	2	26/06/2023 14:13	Barometric Pressure	996	mbar	5	GA5000	
S2-BH249	2	26/06/2023 14:13	Peak Carbon Dioxide	9.3	%	0.5	GA5000	
S2-BH249	2	26/06/2023 14:13	Steady Carbon Dioxide	8.9	%	0.5	GA5000	
S2-BH249	2	26/06/2023 14:13	Peak Methane	1.6	%	0.5	GA5000	
S2-BH249	2	26/06/2023 14:13	Steady Methane	1.6	%	0.5	GA5000	
S2-BH249	1	26/06/2023 14:13	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 3.14m
S2-BH249	2	26/06/2023 14:13	Steady Oxygen	9.3	%	1	GA5000	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH249	2	26/06/2023 14:13	Peak Oxygen	9.1	%	1	GA5000	
S2-BH249	2	26/06/2023 14:15	Gas Flow Rate	0.1	l/hr	0.3	GA5000	
S2-BH249	2	26/06/2023 14:16	Water Level	4.85	m	0.01	Dip Meter	Base dipped at 7.65m
S2-BH249	2	24/07/2023 13:54	Steady Methane	0.1	%	0.5	GA5000 G508511	
S2-BH249	2	24/07/2023 13:54	Hydrogen Sulphide	0	ppm	1.5	GA5000 G508511	
S2-BH249	2	24/07/2023 13:54	Peak Methane	0.1	%	0.5	GA5000 G508511	
S2-BH249	2	24/07/2023 13:54	Steady Oxygen	8.1	%	1	GA5000 G508511	
S2-BH249	2	24/07/2023 13:54	Peak Oxygen	8.1	%	1	GA5000 G508511	
S2-BH249	2	24/07/2023 13:54	Gas Flow Rate	0.2	l/hr	0.3	GA5000 G508511	
S2-BH249	2	24/07/2023 13:54	Carbon Monoxide	0	ppm	2	GA5000 G508511	
S2-BH249	2	24/07/2023 13:54	Differential Pressure	0.09	mbar	4	GA5000 G508511	
S2-BH249	2	24/07/2023 13:54	Steady Carbon Dioxide	4.6	%	0.5	GA5000 G508511	
S2-BH249	2	24/07/2023 13:54	Peak Carbon Dioxide	4.6	%	0.5	GA5000 G508511	
S2-BH249	2	24/07/2023 13:54	Barometric Pressure	983	mbar	5	GA5000 G508511	
S2-BH249	1	24/07/2023 14:05	Barometric Pressure	983	mbar	5	GA5000 G508511	
S2-BH249	1	24/07/2023 14:05	Peak Carbon Dioxide	4.2	%	0.5	GA5000 G508511	
S2-BH249	1	24/07/2023 14:05	Steady Carbon Dioxide	4.1	%	0.5	GA5000 G508511	
S2-BH249	1	24/07/2023 14:05	Differential Pressure	0.16	mbar	4	GA5000 G508511	
S2-BH249	1	24/07/2023 14:05	Carbon Monoxide	0	ppm	2	GA5000 G508511	
S2-BH249	1	24/07/2023 14:05	Gas Flow Rate	0	l/hr	0.3	GA5000 G508511	
S2-BH249	1	24/07/2023 14:05	Peak Oxygen	7.2	%	1	GA5000 G508511	
S2-BH249	1	24/07/2023 14:05	Steady Oxygen	7.5	%	1	GA5000 G508511	
S2-BH249	1	24/07/2023 14:05	Peak Methane	0	%	0.5	GA5000 G508511	
S2-BH249	1	24/07/2023 14:05	Hydrogen Sulphide	0	ppm	1.5	GA5000 G508511	
S2-BH249	1	24/07/2023 14:05	Steady Methane	0	%	0.5	GA5000 G508511	
S2-BH249	1	24/07/2023 14:20	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 3.14m
S2-BH249	2	24/07/2023 14:22	Water Level	3.76	m	0.01	Dip Meter	Base dipped at 7.70m
S2-BH249	1	21/08/2023 13:28	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH249	1	21/08/2023 13:28	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH249	1	21/08/2023 13:28	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH249	1	21/08/2023 13:28	Steady Oxygen	6.5	%	1	GA5000 SN:G504748	
S2-BH249	1	21/08/2023 13:28	Peak Oxygen	6.5	%	1	GA5000 SN:G504748	
S2-BH249	1	21/08/2023 13:28	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH249	1	21/08/2023 13:28	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH249	1	21/08/2023 13:28	Differential Pressure	-0.09	mbar	4	GA5000 SN:G504748	
S2-BH249	1	21/08/2023 13:28	Steady Carbon Dioxide	6.9	%	0.5	GA5000 SN:G504748	
S2-BH249	1	21/08/2023 13:28	Peak Carbon Dioxide	6.9	%	0.5	GA5000 SN:G504748	
S2-BH249	1	21/08/2023 13:28	Barometric Pressure	996	mbar	5	GA5000 SN:G504748	
S2-BH249	1	21/08/2023 13:37	Water Level		m	0.01	Dip Meter	Base dipped dry at 3.15m

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH249	2	21/08/2023 13:38	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH249	2	21/08/2023 13:38	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH249	2	21/08/2023 13:38	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH249	2	21/08/2023 13:38	Peak Oxygen	6.9	%	1	GA5000 SN:G504748	
S2-BH249	2	21/08/2023 13:38	Steady Oxygen	6.9	%	1	GA5000 SN:G504748	
S2-BH249	2	21/08/2023 13:38	Barometric Pressure	996	mbar	5	GA5000 SN:G504748	
S2-BH249	2	21/08/2023 13:38	Peak Carbon Dioxide	7.3	%	0.5	GA5000 SN:G504748	
S2-BH249	2	21/08/2023 13:38	Steady Carbon Dioxide	7.3	%	0.5	GA5000 SN:G504748	
S2-BH249	2	21/08/2023 13:38	Differential Pressure	-0.03	mbar	4	GA5000 SN:G504748	
S2-BH249	2	21/08/2023 13:38	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH249	2	21/08/2023 13:38	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH249	2	21/08/2023 13:46	Water Level	3.69	m	0.01	Dip Meter	Base dipped at 7.49m
S2-BH250	1		Water Level	3.53	m	0.01	Dip Meter	Base dipped at 9.07m
S2-BH250	1	26/06/2023 16:13	Steady Methane	1.6	%	0.5	GA5000	
S2-BH250	1	26/06/2023 16:13	Peak Methane	1.6	%	0.5	GA5000	
S2-BH250	1	26/06/2023 16:13	Steady Oxygen	15.4	%	1	GA5000	
S2-BH250	1	26/06/2023 16:13	Peak Oxygen	15.4	%	1	GA5000	
S2-BH250	1	26/06/2023 16:13	Gas Flow Rate	1.2	l/hr	0.3	GA5000	
S2-BH250	1	26/06/2023 16:13	Differential Pressure	0	mbar	4	GA5000	
S2-BH250	1	26/06/2023 16:13	Hydrogen Sulphide	1	ppm	1.5	GA5000	
S2-BH250	1	26/06/2023 16:13	Steady Carbon Dioxide	3.5	%	0.5	GA5000	
S2-BH250	1	26/06/2023 16:13	Carbon Monoxide	2	ppm	2	GA5000	
S2-BH250	1	26/06/2023 16:13	Peak Carbon Dioxide	3.5	%	0.5	GA5000	
S2-BH250	1	26/06/2023 16:13	Barometric Pressure	997	mbar	5	GA5000	
S2-BH250	2	26/06/2023 16:16	Barometric Pressure	997	mbar	5	GA5000	
S2-BH250	2	26/06/2023 16:16	Peak Carbon Dioxide	13.6	%	0.5	GA5000	
S2-BH250	2	26/06/2023 16:16	Steady Carbon Dioxide	13.6	%	0.5	GA5000	
S2-BH250	2	26/06/2023 16:16	Differential Pressure	0.09	mbar	4	GA5000	
S2-BH250	2	26/06/2023 16:16	Gas Flow Rate	0	l/hr	0.3	GA5000	
S2-BH250	2	26/06/2023 16:16	Carbon Monoxide	2	ppm	2	GA5000	
S2-BH250	2	26/06/2023 16:16	Steady Oxygen	8.4	%	1	GA5000	
S2-BH250	2	26/06/2023 16:16	Peak Oxygen	8.4	%	1	GA5000	
S2-BH250	2	26/06/2023 16:16	Peak Methane	1.6	%	0.5	GA5000	
S2-BH250	2	26/06/2023 16:16	Hydrogen Sulphide	1	ppm	1.5	GA5000	
S2-BH250	2	26/06/2023 16:16	Steady Methane	1.6	%	0.5	GA5000	
S2-BH250	2	26/06/2023 16:28	Water Level		m	0.01	Dip Meter	Base dipped at 2.05m Dry.
S2-BH250	1	26/07/2023 10:04	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH250	1	26/07/2023 10:04	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH250	1	26/07/2023 10:04	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH250	1	26/07/2023 10:04	Steady Oxygen	17.1	%	1	GA5000 SN:G504748	
S2-BH250	1	26/07/2023 10:04	Peak Oxygen	17.1	%	1	GA5000 SN:G504748	
S2-BH250	1	26/07/2023 10:04	Gas Flow Rate	6.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH250	1	26/07/2023 10:04	Differential Pressure	0.79	mbar	4	GA5000 SN:G504748	
S2-BH250	1	26/07/2023 10:04	Carbon Monoxide	3	ppm	2	GA5000 SN:G504748	
S2-BH250	1	26/07/2023 10:04	Peak Carbon Dioxide	3.2	%	0.5	GA5000 SN:G504748	
S2-BH250	1	26/07/2023 10:04	Steady Carbon Dioxide	3.2	%	0.5	GA5000 SN:G504748	
S2-BH250	1	26/07/2023 10:04	Barometric Pressure	986	mbar	5	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:12	Barometric Pressure	986	mbar	5	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:12	Peak Carbon Dioxide	10.8	%	0.5	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:12	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:12	Steady Carbon Dioxide	10.7	%	0.5	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:12	Differential Pressure	-0.02	mbar	4	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:12	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:12	Peak Oxygen	7.7	%	1	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:12	Steady Oxygen	7.7	%	1	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:12	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:12	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:12	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:20	Water Level		m	0.01	Dip Meter	Base dipped at 2.03m Dry
S2-BH250	1	26/07/2023 10:21	Water Level	3.23	m	0.01	Dip Meter	Base dipped at 9.30m
S2-BH250	2	24/08/2023 15:33	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH250	2	24/08/2023 15:33	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH250	2	24/08/2023 15:33	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH250	2	24/08/2023 15:33	Steady Oxygen	2.7	%	1	GA5000 SN:G504748	
S2-BH250	2	24/08/2023 15:33	Peak Oxygen	2.7	%	1	GA5000 SN:G504748	
S2-BH250	2	24/08/2023 15:33	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH250	2	24/08/2023 15:33	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH250	2	24/08/2023 15:33	Differential Pressure	-0.1	mbar	4	GA5000 SN:G504748	
S2-BH250	2	24/08/2023 15:33	Steady Carbon Dioxide	13.8	%	0.5	GA5000 SN:G504748	
S2-BH250	2	24/08/2023 15:33	Peak Carbon Dioxide	13.8	%	0.5	GA5000 SN:G504748	
S2-BH250	2	24/08/2023 15:33	Barometric Pressure	986	mbar	5	GA5000 SN:G504748	
S2-BH250	1	24/08/2023 15:45	Barometric Pressure	986	mbar	5	GA5000 SN:G504748	
S2-BH250	1	24/08/2023 15:45	Steady Carbon Dioxide	4.6	%	0.5	GA5000 SN:G504748	
S2-BH250	1	24/08/2023 15:45	Peak Carbon Dioxide	4.6	%	0.5	GA5000 SN:G504748	
S2-BH250	1	24/08/2023 15:45	Differential Pressure	-14.47	mbar	4	GA5000 SN:G504748	
S2-BH250	1	24/08/2023 15:45	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH250	1	24/08/2023 15:45	Gas Flow Rate	-1.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH250	1	24/08/2023 15:45	Carbon Monoxide	2	ppm	2	GA5000 SN:G504748	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH250	1	24/08/2023 15:45	Steady Oxygen	17.5	%	1	GA5000 SN:G504748	
S2-BH250	1	24/08/2023 15:45	Peak Oxygen	17.5	%	1	GA5000 SN:G504748	
S2-BH250	1	24/08/2023 15:45	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH250	1	24/08/2023 15:45	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH250	2	24/08/2023 15:50	Water Level		m	0.01	Dip Meter	Base dipped at 2.07m Dry.
S2-BH250	1	24/08/2023 15:51	Water Level	3.21	m	0.01	Dip Meter	Base dipped at 8.97m
S2-BH252	1	26/06/2023 15:39	Water Level		m	0.01	Dip Meter	Base dipped at 2.54m Dry
S2-BH252	1	26/06/2023 15:39	Steady Methane	1.6	%	0.5	GA5000	
S2-BH252	1	26/06/2023 15:39	Hydrogen Sulphide	1	ppm	1.5	GA5000	
S2-BH252	1	26/06/2023 15:39	Peak Methane	1.7	%	0.5	GA5000	
S2-BH252	1	26/06/2023 15:39	Steady Oxygen	16.4	%	1	GA5000	
S2-BH252	1	26/06/2023 15:39	Peak Oxygen	16.4	%	1	GA5000	
S2-BH252	1	26/06/2023 15:39	Gas Flow Rate	0.1	l/hr	0.3	GA5000	
S2-BH252	1	26/06/2023 15:39	Differential Pressure	0.05	mbar	4	GA5000	
S2-BH252	1	26/06/2023 15:39	Peak Carbon Dioxide	4.1	%	0.5	GA5000	
S2-BH252	1	26/06/2023 15:39	Steady Carbon Dioxide	4.1	%	0.5	GA5000	
S2-BH252	1	26/06/2023 15:39	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH252	1	26/06/2023 15:39	Barometric Pressure	997	mbar	5	GA5000	
S2-BH252	2	26/06/2023 15:48	Barometric Pressure	997	mbar	5	GA5000	
S2-BH252	2	26/06/2023 15:48	Peak Carbon Dioxide	2.1	%	0.5	GA5000	
S2-BH252	2	26/06/2023 15:48	Steady Carbon Dioxide	2	%	0.5	GA5000	
S2-BH252	2	26/06/2023 15:48	Differential Pressure	-0.68	mbar	4	GA5000	
S2-BH252	2	26/06/2023 15:48	Hydrogen Sulphide	2	ppm	1.5	GA5000	
S2-BH252	2	26/06/2023 15:48	Gas Flow Rate	5.3	l/hr	0.3	GA5000	
S2-BH252	2	26/06/2023 15:48	Carbon Monoxide	4	ppm	2	GA5000	
S2-BH252	2	26/06/2023 15:48	Peak Oxygen	18.9	%	1	GA5000	
S2-BH252	2	26/06/2023 15:48	Steady Oxygen	18.9	%	1	GA5000	
S2-BH252	2	26/06/2023 15:48	Peak Methane	1.6	%	0.5	GA5000	
S2-BH252	2	26/06/2023 15:48	Steady Methane	1.6	%	0.5	GA5000	
S2-BH252	2	26/06/2023 15:50	Water Level	5.41	m	0.01	Dip Meter	Base dipped at 8.63m
S2-BH252	1	25/07/2023 11:54	Peak Oxygen	18.8	%	1	GA5000 SN:G508511	
S2-BH252	1	25/07/2023 11:54	Steady Oxygen	19.6	%	1	GA5000 SN:G508511	
S2-BH252	1	25/07/2023 11:54	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH252	1	25/07/2023 11:54	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH252	1	25/07/2023 11:54	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH252	1	25/07/2023 11:54	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH252	1	25/07/2023 11:54	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH252	1	25/07/2023 11:54	Differential Pressure	-0.05	mbar	4	GA5000 SN:G508511	
S2-BH252	1	25/07/2023 11:54	Steady Carbon Dioxide	1.9	%	0.5	GA5000 SN:G508511	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH252	1	25/07/2023 11:54	Barometric Pressure	988	mbar	5	GA5000 SN:G508511	
S2-BH252	1	25/07/2023 11:54	Peak Carbon Dioxide	2	%	0.5	GA5000 SN:G508511	
S2-BH252	2	25/07/2023 12:01	Barometric Pressure	987	mbar	5	GA5000 SN:G508511	
S2-BH252	2	25/07/2023 12:01	Peak Carbon Dioxide	1.5	%	0.5	GA5000 SN:G508511	
S2-BH252	2	25/07/2023 12:01	Steady Carbon Dioxide	1.5	%	0.5	GA5000 SN:G508511	
S2-BH252	2	25/07/2023 12:01	Differential Pressure	89.05	mbar	4	GA5000 SN:G508511	
S2-BH252	2	25/07/2023 12:01	Carbon Monoxide	5	ppm	2	GA5000 SN:G508511	
S2-BH252	2	25/07/2023 12:01	Gas Flow Rate	-5.3	l/hr	0.3	GA5000 SN:G508511	
S2-BH252	2	25/07/2023 12:01	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH252	2	25/07/2023 12:01	Hydrogen Sulphide	1	ppm	1.5	GA5000 SN:G508511	
S2-BH252	2	25/07/2023 12:01	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH252	2	25/07/2023 12:01	Steady Oxygen	19.7	%	1	GA5000 SN:G508511	
S2-BH252	2	25/07/2023 12:01	Peak Oxygen	19.7	%	1	GA5000 SN:G508511	
S2-BH252	1	25/07/2023 12:07	Water Level		m	0.01	Dip Meter	Damp at base. Base dipped at 2.58m
S2-BH252	2	25/07/2023 12:10	Water Level	4.07	m	0.01	Dip Meter	Base dipped at 8.87m
S2-BH252	1	22/08/2023 13:19	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH252	1	22/08/2023 13:19	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH252	1	22/08/2023 13:19	Peak Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH252	1	22/08/2023 13:19	Peak Oxygen	15.2	%	1	GA5000 SN:G508511	
S2-BH252	1	22/08/2023 13:19	Steady Oxygen	15.2	%	1	GA5000 SN:G508511	
S2-BH252	1	22/08/2023 13:19	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH252	1	22/08/2023 13:19	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH252	1	22/08/2023 13:19	Differential Pressure	0.02	mbar	4	GA5000 SN:G508511	
S2-BH252	1	22/08/2023 13:19	Steady Carbon Dioxide	5.1	%	0.5	GA5000 SN:G508511	
S2-BH252	1	22/08/2023 13:19	Peak Carbon Dioxide	5.2	%	0.5	GA5000 SN:G508511	
S2-BH252	1	22/08/2023 13:19	Barometric Pressure	994	mbar	5	GA5000 SN:G508511	
S2-BH252	1	22/08/2023 13:45	Water Level		m	0.01	Dip Meter	Base dipped at 2.55m Dry
S2-BH252	2	22/08/2023 13:48	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH252	2	22/08/2023 13:48	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH252	2	22/08/2023 13:48	Steady Oxygen	19.2	%	1	GA5000 SN:G508511	
S2-BH252	2	22/08/2023 13:48	Peak Oxygen	19.1	%	1	GA5000 SN:G508511	
S2-BH252	2	22/08/2023 13:48	Barometric Pressure	994	mbar	5	GA5000 SN:G508511	
S2-BH252	2	22/08/2023 13:48	Peak Carbon Dioxide	1.6	%	0.5	GA5000 SN:G508511	
S2-BH252	2	22/08/2023 13:48	Steady Carbon Dioxide	1.6	%	0.5	GA5000 SN:G508511	
S2-BH252	2	22/08/2023 13:48	Differential Pressure	-11.13	mbar	4	GA5000 SN:G508511	
S2-BH252	2	22/08/2023 13:48	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH252	2	22/08/2023 13:48	Carbon Monoxide	2	ppm	2	GA5000 SN:G508511	
S2-BH252	2	22/08/2023 13:48	Gas Flow Rate	7.3	l/hr	0.3	GA5000 SN:G508511	
S2-BH252	2	22/08/2023 13:51	Water Level	4.5	m	0.01	Dip Meter	Base dipped at 9.00m

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

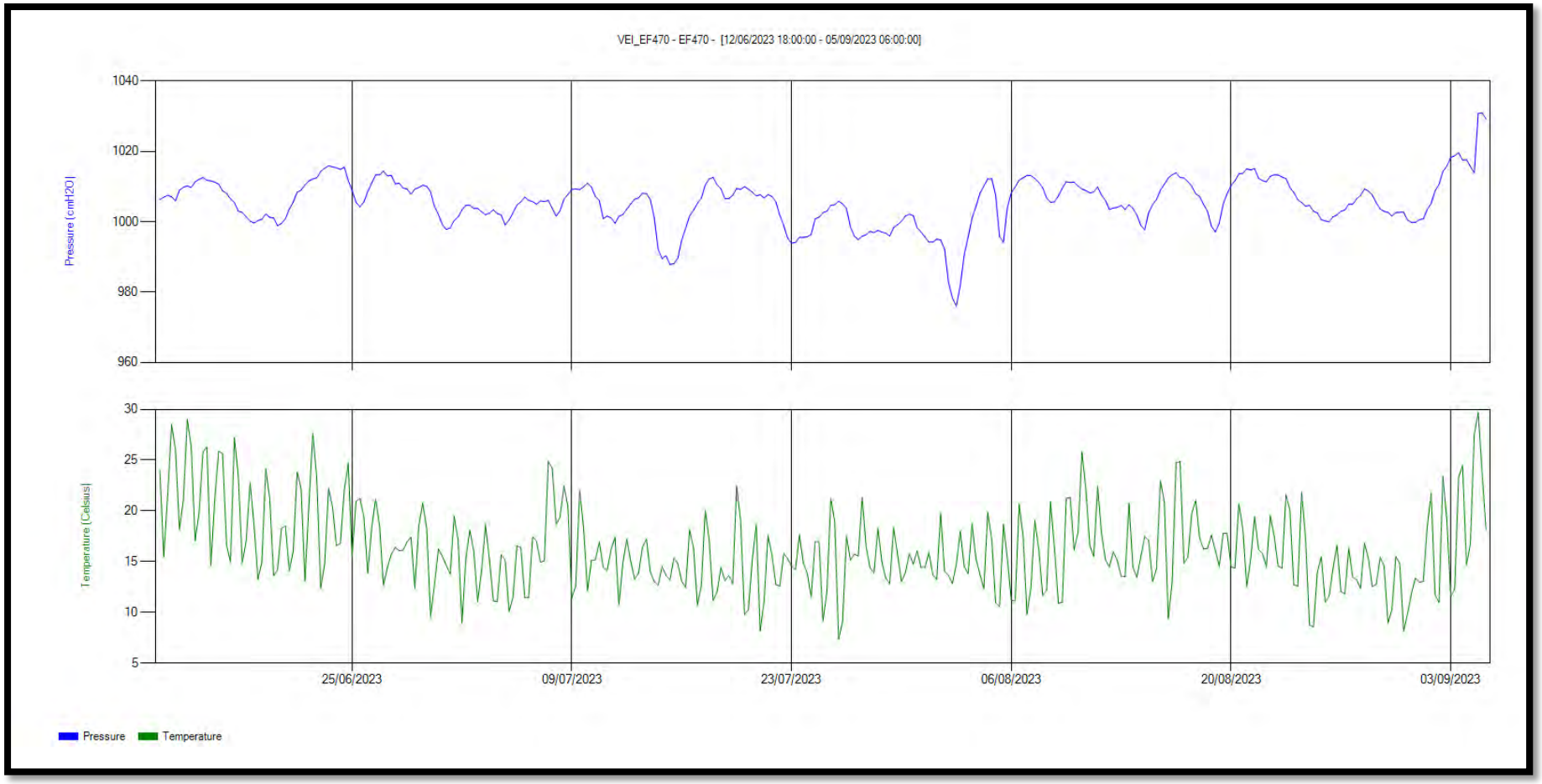
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH261	1	27/06/2023 14:34	Steady Methane	1.7	%	0.5	GA5000	
S2-BH261	1	27/06/2023 14:34	Peak Methane	1.7	%	0.5	GA5000	
S2-BH261	1	27/06/2023 14:34	Steady Oxygen	18.8	%	1	GA5000	
S2-BH261	1	27/06/2023 14:34	Peak Oxygen	18.7	%	1	GA5000	
S2-BH261	1	27/06/2023 14:34	Gas Flow Rate	0.3	l/hr	0.3	GA5000	
S2-BH261	1	27/06/2023 14:34	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH261	1	27/06/2023 14:34	Differential Pressure	0.23	mbar	4	GA5000	
S2-BH261	1	27/06/2023 14:34	Hydrogen Sulphide	0	ppm	1.5	GA5000	
S2-BH261	1	27/06/2023 14:34	Steady Carbon Dioxide	1.3	%	0.5	GA5000	
S2-BH261	1	27/06/2023 14:34	Peak Carbon Dioxide	1.9	%	0.5	GA5000	
S2-BH261	1	27/06/2023 14:34	Barometric Pressure	994	mbar	5	GA5000	
S2-BH261	1	27/06/2023 14:40	Water Level	11.58	m	0.01	Dip Meter	Base dipped at 14.32m
S2-BH261	2	27/06/2023 14:51	Water Level		m	0.01	Dip Meter	Base dipped at 7.62m Dry.
S2-BH261	2	27/06/2023 14:55	Steady Methane	1.7	%	0.5	GA5000	
S2-BH261	2	27/06/2023 14:55	Peak Methane	1.7	%	0.5	GA5000	
S2-BH261	2	27/06/2023 14:55	Steady Oxygen	14.2	%	1	GA5000	
S2-BH261	2	27/06/2023 14:55	Peak Oxygen	14.4	%	1	GA5000	
S2-BH261	2	27/06/2023 14:55	Peak Carbon Dioxide	4.3	%	0.5	GA5000	
S2-BH261	2	27/06/2023 14:55	Barometric Pressure	994	mbar	5	GA5000	
S2-BH261	2	27/06/2023 14:55	Steady Carbon Dioxide	3.9	%	0.5	GA5000	
S2-BH261	2	27/06/2023 14:55	Hydrogen Sulphide	0	ppm	1.5	GA5000	
S2-BH261	2	27/06/2023 14:55	Differential Pressure	-0.05	mbar	4	GA5000	
S2-BH261	2	27/06/2023 14:55	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH261	2	27/06/2023 14:55	Gas Flow Rate	0	l/hr	0.3	GA5000	
S2-BH261	1	25/07/2023 15:10	Gas Flow Rate	1.9	l/hr	0.3	GA5000 SN:G508511	
S2-BH261	1	25/07/2023 15:10	Differential Pressure	28.33	mbar	4	GA5000 SN:G508511	
S2-BH261	1	25/07/2023 15:10	Hydrogen Sulphide	1	ppm	1.5	GA5000 SN:G508511	
S2-BH261	1	25/07/2023 15:10	Steady Carbon Dioxide	3.9	%	0.5	GA5000 SN:G508511	
S2-BH261	1	25/07/2023 15:10	Carbon Monoxide	2	ppm	2	GA5000 SN:G508511	
S2-BH261	1	25/07/2023 15:10	Peak Carbon Dioxide	3.9	%	0.5	GA5000 SN:G508511	
S2-BH261	1	25/07/2023 15:10	Barometric Pressure	987	mbar	5	GA5000 SN:G508511	
S2-BH261	1	25/07/2023 15:10	Steady Oxygen	9.9	%	1	GA5000 SN:G508511	
S2-BH261	1	25/07/2023 15:10	Peak Oxygen	9.9	%	1	GA5000 SN:G508511	
S2-BH261	1	25/07/2023 15:10	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH261	1	25/07/2023 15:10	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH261	1	25/07/2023 15:18	Water Level	9.72	m	0.01	Dip Meter	Base dipped at 14.08m
S2-BH261	2	25/07/2023 15:22	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH261	2	25/07/2023 15:22	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH261	2	25/07/2023 15:22	Steady Oxygen	12.9	%	1	GA5000 SN:G508511	

GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Montoring	Project No	G23012C	Client	Walters UK Limited

Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH261	2	25/07/2023 15:22	Peak Oxygen	12.9	%	1	GA5000 SN:G508511	
S2-BH261	2	25/07/2023 15:22	Barometric Pressure	988	mbar	5	GA5000 SN:G508511	
S2-BH261	2	25/07/2023 15:22	Peak Carbon Dioxide	4.1	%	0.5	GA5000 SN:G508511	
S2-BH261	2	25/07/2023 15:22	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511	
S2-BH261	2	25/07/2023 15:22	Steady Carbon Dioxide	4	%	0.5	GA5000 SN:G508511	
S2-BH261	2	25/07/2023 15:22	Hydrogen Sulphide	1	ppm	1.5	GA5000 SN:G508511	
S2-BH261	2	25/07/2023 15:22	Differential Pressure	0.1	mbar	4	GA5000 SN:G508511	
S2-BH261	2	25/07/2023 15:22	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH261	2	25/07/2023 15:26	Water Level	4.46	m	0.01	Dip Meter	Base dipped at 7.70m
S2-BH261	2	22/08/2023 11:31	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH261	2	22/08/2023 11:31	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH261	2	22/08/2023 11:31	Peak Oxygen	13.4	%	1	GA5000 SN:G504748	
S2-BH261	2	22/08/2023 11:31	Steady Oxygen	13.5	%	1	GA5000 SN:G504748	
S2-BH261	2	22/08/2023 11:31	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH261	2	22/08/2023 11:31	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH261	2	22/08/2023 11:31	Differential Pressure	-0.02	mbar	4	GA5000 SN:G504748	
S2-BH261	2	22/08/2023 11:31	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH261	2	22/08/2023 11:31	Steady Carbon Dioxide	4	%	0.5	GA5000 SN:G504748	
S2-BH261	2	22/08/2023 11:31	Peak Carbon Dioxide	4	%	0.5	GA5000 SN:G504748	
S2-BH261	2	22/08/2023 11:31	Barometric Pressure	995	mbar	5	GA5000 SN:G504748	
S2-BH261	2	22/08/2023 11:41	Water Level		m	0.01	Dip Meter	Base dipped dry at 7.81m
S2-BH261	1	22/08/2023 11:48	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH261	1	22/08/2023 11:48	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH261	1	22/08/2023 11:48	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH261	1	22/08/2023 11:48	Steady Oxygen	11.9	%	1	GA5000 SN:G504748	
S2-BH261	1	22/08/2023 11:48	Peak Oxygen	11.9	%	1	GA5000 SN:G504748	
S2-BH261	1	22/08/2023 11:48	Barometric Pressure	995	mbar	5	GA5000 SN:G504748	
S2-BH261	1	22/08/2023 11:48	Peak Carbon Dioxide	2.8	%	0.5	GA5000 SN:G504748	
S2-BH261	1	22/08/2023 11:48	Steady Carbon Dioxide	2.8	%	0.5	GA5000 SN:G504748	
S2-BH261	1	22/08/2023 11:48	Differential Pressure	3.96	mbar	4	GA5000 SN:G504748	
S2-BH261	1	22/08/2023 11:48	Carbon Monoxide	1	ppm	2	GA5000 SN:G504748	
S2-BH261	1	22/08/2023 11:56	Water Level	9.56	m	0.01	Dip Meter	Base dipped at 14.06m

G23012C GCRE Stage 2 Monitoring Barometric Pressure and Temperature



Appendix III

Sampling

Purging and Sampling Records	Monitoring Visit One Monitoring Visit Two Monitoring Visit Three
In-Situ Parameters	Monitoring visit One – S2-BH118, S2-BH119.1, S2-BH120, S2-BH217.1, S2-BH225, S2-BH227.1, S2-BH232, S2-BH237, S2-BH239.1, S2-BH239.2, S2-BH240, S2-BH242, S2-BH243.1, S2-BH244.2, S2-BH246.1, S2-BH248.1, S2-BH249.2, S2-BH250.1, S2-BH252.2 Monitoring Visit Two – S2-BH118, S2-BH119.1, S2-BH119.2, S2-BH120, S2-BH217.1, S2-BH222.2, S2-BH225, S2-BH227.1, S2-BH227.2, S2-BH229.1, S2-BH232, S2-BH237, S2-BH239.1, S2-BH239.2, S2-BH240, S2-BH242, S2-BH243.1, S2-BH244.2, S2-BH246.1, S2-BH248.1, S2-BH249.2, S2-BH250.1, S2-BH252.2, S2-BH261.1, S2-BH261.2 Monitoring Visit Three – S2-BH118, S2-BH119.1, S2-BH120, S2-BH217.1, S2-BH229.1, S2-BH237, S2-BH239.1, S2-BH239.2, S2-BH240, S2-BH242, S2-BH243.1, S2-BH244.2, S2-BH246.1, S2-BH248.1, S2-BH249.2, S2-BH250.1, S2-BH252.2

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S1-BH118	1	50	15.00	29/06/2023 10:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	8.00	15.00	Cloudy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.92	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	7.76	LNAPL/ DNAPL (m bgl)	NA

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	6	Number of Well Volumes Purged	0.3
Total Volume Purged (litres)	12.0	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running opaque

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	7.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	22.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	7.24
Volume of the Standpipe (litres) (πdp2/4)*10-3	14.2
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**36.2**

Sampling Information

Sample Depth (m bgl)	14.92
Sample Type	EW
Sample Reference Number	1
Date and Time Obtained	29/06/2023 10:59

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S1-BH119	1	50	15.00	29/06/2023 11:10
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	8.00	15.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	15.00	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	7.61	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	18	Number of Well Volumes Purged	1.0
Total Volume Purged (litres)	36.0	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Trol l400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	7.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	22.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	7.39
Volume of the Standpipe (litres) (πdp2/4)*10-3	14.5

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**36.5**

Sampling Information

Sample Depth (m bgl)	15.00
Sample Type	EW
Sample Reference Number	2
Date and Time Obtained	29/06/2023 11:28

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S1-BH119	2	50	4.00	29/06/2023 10:50
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	4.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.60	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	2.16	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	6	Number of Well Volumes Purged	1.3
Total Volume Purged (litres)	12.0	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey running clear

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	1.84
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	5.8
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.84
Volume of the Standpipe (litres) (πdp2/4)*10-3	3.6
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**9.4**

Sampling Information

Sample Depth (m bgl)	3.60
Sample Type	EW
Sample Reference Number	1
Date and Time Obtained	29/06/2023 11:00

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S1-BH120	1	50	20.00	29/06/2023 12:17
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	12.00	20.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	19.41	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	9.27	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	6	Number of Well Volumes Purged	0.3
Total Volume Purged (litres)	12.0	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running clear

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	8.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	25.2
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	10.73
Volume of the Standpipe (litres) (πdp2/4)*10-3	21.1
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**46.2**

Sampling Information

Sample Depth (m bgl)	19.41
Sample Type	EW
Sample Reference Number	1
Date and Time Obtained	29/06/2023 12:30

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH204	1	50	32.00	28/06/2023 15:11
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	21.00	32.00	Rain

Installation Inspection

Surface Conditions	Good	Damage to Headworks?	No
Check Dip of Base (m bgl)	31.16	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	27.84	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	N/A
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A
Total Volume Purged (litres)	N/A	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	4.16
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	12.8
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	4.16
Volume of the Standpipe (litres) (πdp2/4)*10-3	8.2
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**21.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to sample. Water contains too much silt.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH207	1	50	40.00	28/06/2023 14:18
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	36.00	40.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	40.23	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH208	1	50	40.50	28/06/2023 14:39
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	32.50	40.50	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	40.28	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH210	1	50	40.00	28/06/2023 14:45
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	30.00	40.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	39.91	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

No

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	37.62	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	2.38
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	7.3

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	2.38
Volume of the Standpipe (litres) (πdp2/4)*10-3	4.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**12.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Water too deep to be purged using current pump.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH214	1	50	30.00	30/06/2023 10:15
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	20.00	30.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	30.05	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	29.37	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	N/A
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A
Total Volume Purged (litres)	N/A	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	0.63
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	2.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.63
Volume of the Standpipe (litres) (πdp2/4)*10-3	1.2
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**3.2**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Insufficient water to sample.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH217	1	19	30.00	06/07/2023 12:43
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	25.00	30.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	29.55	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	15.62	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Waterra PP1	Average Flow Rate (litres/min)	1.0
Time to Purge (mins)	10	Number of Well Volumes Purged	0.4
Total Volume Purged (litres)	10.0	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Light brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	5.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	18.2

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	19
Saturated depth (m) (sd) (installation base - groundwater level)	14.38
Volume of the Standpipe (litres) (πdp2/4)*10-3	4.1

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**22.3**

Sampling Information

Sample Depth (m bgl)	29.55
Sample Type	EW
Sample Reference Number	1
Date and Time Obtained	06/07/2023 13:00

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH217	2	50	6.00	30/06/2023 11:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	6.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	5.88	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	N/A
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A
Total Volume Purged (litres)	N/A	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH219	1	50	4.00	30/06/2023 11:06
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	4.00	Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.68	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH219	2	50	9.00	30/06/2023 10:52
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	5.00	9.00	Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	8.66	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH220	1	50	39.00	28/06/2023 15:14
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	31.00	39.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	40.3	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring
(see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH220	2	19	31.00	28/06/2023 15:20
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	31.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	30.20	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	29.70	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	NA	Average Flow Rate (litres/min)	
Time to Purge (mins)	NA	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	NA	Groundwater Odour	N/A
In-situ Parameter Device SN	NA	Visual Turbidity	N/A
Confirm Field Calibration Completed	NA	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	1.30
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	4.7
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	19
Saturated depth (m) (sd) (installation base - groundwater level)	1.30
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.4
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**5.1**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Insufficient water to sample

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH221	1	0	10.00	30/06/2023 10:59
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cover	4.00	10.00	Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.74	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Damp	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	177
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	0
Saturated depth (m) (sd) (installation base - groundwater level)	0.00
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH222	1	50	4.00	04/07/2023 14:40
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cover	2.00	4.00	Light rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.86	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	146
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH222	2	50	25.00	04/07/2023 14:50
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cover	15.00	25.00	Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	24.65	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	146
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH223	1	50	10.00	05/07/2023 13:10
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cover	4.00	10.00	Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	7.93	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	6.83	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	N/A
In-situ Parameter Device SN	1029035	Visual Turbidity	N/A
Confirm Field Calibration Completed	Yes	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.10
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	177
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	8.2

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.10
Volume of the Standpipe (litres) (πdp2/4)*10-3	2.2

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**10.4**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to get pump to base of borehole. Possibly kinked at approximately 5m. Unable to obtain sample using a Waterra PP1 and 13mm diameter tubing (06/07/2023) due to silt in borehole.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH224	1	50	10.00	29/06/2023 16:19
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	10.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.47	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	177
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH225	1	50	6.90	05/07/2023 10:20
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	3.00	6.90	Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	5.89	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	3.98	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	7.50	Number of Well Volumes Purged	1.0
Total Volume Purged (litres)	15.0	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Light brown

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	2.92
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	9.2
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	2.92
Volume of the Standpipe (litres) (πdp2/4)*10-3	5.7
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**14.9**

Sampling Information

Sample Depth (m bgl)	5.89
Sample Type	EW
Sample Reference Number	1
Date and Time Obtained	05/07/2023 10:35

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH226	1	50	10.00	05/07/2023 11:27
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cover	4.00	10.00	Sowers

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.79	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	177
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH227	1	19	5.50	29/06/2023 00:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	5.50	Cloudy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	5.37	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	5.07	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	N/A
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A
Total Volume Purged (litres)	N/A	Operative	N/A

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	0.43
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	178
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	3.5
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	19
Saturated depth (m) (sd) (installation base - groundwater level)	0.43
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.1
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**3.6**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Insufficient water for sampling.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH227	2	50	14.00	29/06/2023 14:50
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	8.00	14.00	Cloudy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.35	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	11.09	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	64	Number of Well Volumes Purged	8.6
Total Volume Purged (litres)	128.0	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Light brown running translucent

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	2.91
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	9.2

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	2.91
Volume of the Standpipe (litres) (πdp2/4)*10-3	5.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**14.9**

Sampling Information

Sample Depth (m bgl)	11.09
Sample Type	EW
Sample Reference Number	1
Date and Time Obtained	29/06/2023 16:13

Additional Notes and Observations

In-Situ parameters not settled after 1 hour,. Test terminated after 64 minutes.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH228	1	50	40.00	29/06/2023 15:10
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	40.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	36.81	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

NA

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	175
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH229	1	50	14.00	04/07/2023 13:50
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	8.00	14.00	Cloudy

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	13.81	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	13.58	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	0.42
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	1.3
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.42
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.8
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**2.1**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Insufficient water to sample.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH229	2	50	3.00	04/07/2023 13.37
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	3.00	Cloudy

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	2.80	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH230	1	50	28.00	29/06/2023 15:34
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	28.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	25.87	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	175
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH231	1	50	25.00	04/07/2023 11:46
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	25.00	Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	25.35	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	177
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH232	1	50	7.00	29/06/2023 11:45
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
0	Pipe Plug	1.00	7.00	Cloudy

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	6.83	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	5.28	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	6	Number of Well Volumes Purged	0.8
Total Volume Purged (litres)	12.0	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Dark brown running opaque

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	1.72
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	168
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	11.5
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.72
Volume of the Standpipe (litres) (πdp2/4)*10-3	3.4
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**14.8**

Sampling Information

Sample Depth (m bgl)	6.83
Sample Type	EW
Sample Reference Number	1
Date and Time Obtained	29/06/2023 11:56

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH233	1	50	25.00	29/07/2023 16:40
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	25.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	24.78	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Damp at base	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	168
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH235	1	50	15.00	04/07/2023 10:40
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	8.00	15.00	Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.72	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH236	1	50	15.00	04/07/2023 10:55
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	10.00	15.00	Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.49	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH237	1	50	24.80	29/06/2023 09:24
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	24.80	Cloudy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	25.37	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	12.67	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	8	Number of Well Volumes Purged	0.3
Total Volume Purged (litres)	16.0	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	102905	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Orangish red runing opaque

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	12.13
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	38.2

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	12.13
Volume of the Standpipe (litres) (πdp2/4)*10-3	23.8

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**62.0**

Sampling Information

Sample Depth (m bgl)	25.37
Sample Type	EW
Sample Reference Number	1
Date and Time Obtained	29/06/2023 09:40

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH239	1	50	3.60	27/06/2023 10:08
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	3.60	Rain

Installation Inspection

Surface Conditions	Good	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.60	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	1.89	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	1.6
Time to Purge (mins)	10	Number of Well Volumes Purged	0.8
Total Volume Purged (litres)	16.0	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	AquaTroll400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running clear

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	1.71
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	16.6
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.71
Volume of the Standpipe (litres) (πdp2/4)*10-3	3.4
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**20.0**

Sampling Information

Sample Depth (m bgl)	3.60
Sample Type	EW
Sample Reference Number	12
Date and Time Obtained	27/06/2023 10:20

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH239	2	50	10.00	27/06/2023 09:48
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	7.00	10.00	Rain

Installation Inspection

Surface Conditions	Good	Damage to Headworks?	No
Check Dip of Base (m bgl)	7.60	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	2.20	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	1.8
Time to Purge (mins)	10	Number of Well Volumes Purged	0.6
Total Volume Purged (litres)	18.0	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	N/A
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	146
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	14.6

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	7.80
Volume of the Standpipe (litres) (πdp2/4)*10-3	15.3

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**29.9**

Sampling Information

Sample Depth (m bgl)	7.60
Sample Type	EW
Sample Reference Number	11
Date and Time Obtained	27/06/2023 10:00

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH240	1	50	6.00	27/06/2023 10:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	6.00	Rain

Installation Inspection

Surface Conditions	Good	Damage to Headworks?	No
Check Dip of Base (m bgl)	5.16	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	2.01	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	1.3
Time to Purge (mins)	20	Number of Well Volumes Purged	0.5
Total Volume Purged (litres)	25.0	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.99
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	38.8

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	3.99
Volume of the Standpipe (litres) (πdp2/4)*10-3	7.8

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**46.6**

Sampling Information

Sample Depth (m bgl)	5.16
Sample Type	EW
Sample Reference Number	11
Date and Time Obtained	27/06/2023 10:50

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH241	1	50	15.00	04/07/2023 11:10
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	10.00	15.00	Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.74	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH242	1	50	3.70	27/06/2023 11:09
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	3.70	Rain

Installation Inspection

Surface Conditions	Good	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.74	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	2.07	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	4	Number of Well Volumes Purged	0.4
Total Volume Purged (litres)	8.0	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	1.63
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	15.8
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.63
Volume of the Standpipe (litres) (πdp2/4)*10-3	3.2
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**19.0**

Sampling Information

Sample Depth (m bgl)	3.74
Sample Type	EW
Sample Reference Number	15
Date and Time Obtained	27/06/2023 11:13

Additional Notes and Observations

Borehole Purged dry. Sample taken from bucket.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH243	1	50	6.00	27/06/2023 08:50
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	5.00	6.00	Rain

Installation Inspection

Surface Conditions	Good	Damage to Headworks?	No
Check Dip of Base (m bgl)	5.88	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	3.66	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	7.75	Number of Well Volumes Purged	1.6
Total Volume Purged (litres)	15.5	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Dark brown running translucent

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	1.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	5.2
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	2.34
Volume of the Standpipe (litres) (πdp2/4)*10-3	4.6
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**9.8**

Sampling Information

Sample Depth (m bgl)	5.88
Sample Type	EW
Sample Reference Number	13
Date and Time Obtained	27/06/2023 09:04

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH243	2	50	3.00	26/06/2023 13:49
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	3.00	Cloudy

Installation Inspection

Surface Conditions	Good	Damage to Headworks?	No
Check Dip of Base (m bgl)	5.88	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH244	1	50	3.50	26/06/2023 13:20
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	3.50	Cloudy

Installation Inspection

Surface Conditions	Good	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.49	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH244	2	50	10.00	26/06/2023 14:40
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	4.50	10.00	Cloudy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.38	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	3.39	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	25.5	Number of Well Volumes Purged	1.2
Total Volume Purged (litres)	51.0	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Dark brown running clear

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	5.50
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	28.5
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	6.61
Volume of the Standpipe (litres) (πdp2/4)*10-3	13.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**41.5**

Sampling Information

Sample Depth (m bgl)	9.38
Sample Type	EW
Sample Reference Number	14
Date and Time Obtained	26/06/2023 15:12

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH245	1	50	4.00	27/06/2023 13:50
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.50	4.00	Rain

Installation Inspection

Surface Conditions	Good	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.85	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	3.60	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	0.40
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	3.9
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.40
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.8
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**4.7**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Insufficient water to sample

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH246	1	19	2.80	26/06/2023 10:50
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	2.80	Cloudy

Installation Inspection

Surface Conditions	Good	Damage to Headworks?	No
Check Dip of Base (m bgl)	2.38	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	19
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH246	2	50	8.00	26/06/2023 13:13
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	3.50	8.00	Cloudy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	7.87	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	3.96	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	54	Number of Well Volumes Purged	3.7
Total Volume Purged (litres)	108.0	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running clear

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	4.04
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	20.9
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	4.04
Volume of the Standpipe (litres) (πdp2/4)*10-3	7.9
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**28.9**

Sampling Information

Sample Depth (m bgl)	7.87
Sample Type	EW
Sample Reference Number	11
Date and Time Obtained	26/06/2023 14:12

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH247	1	50	9.00	26/06/2023 10:04
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	6.00	9.00	Cloudy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.84	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	146
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH247	2	50	2.00	26/06/2023 10:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	2.00	Cloudy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	1.99	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH248	1	50	9.50	28/06/2023 10:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	6.50	9.50	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.01	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	6.30	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	9	Number of Well Volumes Purged	0.8
Total Volume Purged (litres)	18.0	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	3.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	15.5
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	3.20
Volume of the Standpipe (litres) (πdp2/4)*10-3	6.3
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**21.8**

Sampling Information

Sample Depth (m bgl)	9.01
Sample Type	EW
Sample Reference Number	1
Date and Time Obtained	28/06/2023 10:40

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH248	2	50	4.00	26/06/2023 15:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	4.00	Rain

Installation Inspection

Surface Conditions	Good	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.9	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH249	1	19	2.80	26/06/2023 14:05
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cap	1.00	2.80	Cloudy

Installation Inspection

Surface Conditions	Good	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.14	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	19
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH249	2	50	8.00	27/06/2023 00:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	3.50	8.00	Rain

Installation Inspection

Surface Conditions	Good	Damage to Headworks?	No
Check Dip of Base (m bgl)	7.65	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	4.85	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp oump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	8.5	Number of Well Volumes Purged	0.8
Total Volume Purged (litres)	17.0	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	N/A
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running opaque

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	3.15
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	16.3
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	3.15
Volume of the Standpipe (litres) (πdp2/4)*10-3	6.2
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**22.5**

Sampling Information

Sample Depth (m bgl)	7.65
Sample Type	EW
Sample Reference Number	14
Date and Time Obtained	27/06/2023 09:33

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH250	1	50	9.50	28/06/2023 10:29
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	7.50	9.50	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.07	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	3.53	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	11	Number of Well Volumes Purged	1.0
Total Volume Purged (litres)	22.0	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running light brown

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	2.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	10.4
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	5.97
Volume of the Standpipe (litres) (πdp2/4)*10-3	11.7
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**22.1**

Sampling Information

Sample Depth (m bgl)	9.07
Sample Type	EW
Sample Reference Number	1
Date and Time Obtained	28/06/2023 10:51

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH250	2	50	2.00	27/06/2023 14:15
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	2.00	Rain

Installation Inspection

Surface Conditions	Good	Damage to Headworks?	No
Check Dip of Base (m bgl)	2.05	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH252	1	50	2.60	26/06/2023 15:44
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	2.60	Cloudy

Installation Inspection

Surface Conditions	Good	Damage to Headworks?	No
Check Dip of Base (m bgl)	2.54	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH252	2	50	9.00	27/06/2023 14:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	6.00	9.00	Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	8.63	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	5.41	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	7	Number of Well Volumes Purged	0.6
Total Volume Purged (litres)	14.0	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey running opaque

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	3.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	146
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	14.6
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	3.59
Volume of the Standpipe (litres) (πdp2/4)*10-3	7.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**21.7**

Sampling Information

Sample Depth (m bgl)	8.63
Sample Type	EW
Sample Reference Number	18
Date and Time Obtained	27/06/2023 14:41

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH261	1	50	15.00	27/06/2023 00:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	10.00	15.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	11.32	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	11.58	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	N/A
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A
Total Volume Purged (litres)	N/A	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	3.42
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	17.7
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	3.42
Volume of the Standpipe (litres) (πdp2/4)*10-3	6.7
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**24.4**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to sample. Water contains too much silt.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project		Project No		Client	

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH261	2	50	8.00	27/06/2023 15:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	3.00	8.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	7.62	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	N/A
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A
Total Volume Purged (litres)	N/A	Operative	CE

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0
Volume of the Standpipe	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S1-BH118	1	50	15.00	27/07/2023 10:40
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	8.00	15.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.97	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	6.93	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	12.5	Number of Well Volumes Purged	0.7
Total Volume Purged (litres)	25.0	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running opaque

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	7.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	22.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	8.07
Volume of the Standpipe (litres) (πdp2/4)*10-3	15.8

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**37.9**

Sampling Information

Sample Depth (m bgl)	14.93
Sample Type	EW
Sample Reference Number	2
Date and Time Obtained	27/07/203 11:06

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S1-BH119	1	50	15.00	27/07/2023 10:48
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	8.00	15.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	15.35	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	7.97	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	9	Number of Well Volumes Purged	0.5
Total Volume Purged (litres)	18.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	7.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	22.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	7.03
Volume of the Standpipe (litres) (πdp2/4)*10-3	13.8

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**35.8**

Sampling Information

Sample Depth (m bgl)	15.35
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	27/07/2023 11:07

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S1-BH119	2	50	4.00	27/07/2023 11:18
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	4.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	4.00	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	2.67	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	9.0	Number of Well Volumes Purged	2.6
Total Volume Purged (litres)	18.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.33
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	4.2

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.33
Volume of the Standpipe (litres) (πdp2/4)*10-3	2.6

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**6.8**

Sampling Information

Sample Depth (m bgl)	4.00
Sample Type	EW
Sample Reference Number	4
Date and Time Obtained	27/07/2023 11:38

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S1-BH120	1	50	20.00	27/07/2023 14:15
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	12.00	20.00	Cloudy

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	20.54	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	9.10	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	60	Number of Well Volumes Purged	2.6
Total Volume Purged (litres)	120.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	8.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	25.2

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	10.90
Volume of the Standpipe (litres) (πdp2/4)*10-3	21.4

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**46.6**

Sampling Information

Sample Depth (m bgl)	20.54
Sample Type	EW
Sample Reference Number	2
Date and Time Obtained	27/07/2023-15:20:00

Additional Notes and Observations

Test run with no ORP settlement reached, test terminated after an hour.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH204	1	50	32.00	28/07/2023 13:47
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	21.00	32.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	30.16	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	27.58	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	4.42
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	13.6

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	4.42
Volume of the Standpipe (litres) (πdp2/4)*10-3	8.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**22.3**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to purge/sample. Insufficient head of water?

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH207	1	50	40.00	28/07/2023 14:45
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	36.00	40.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	39.81	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH208	1	50	40.50	28/07/2023 15:03
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	32.50	40.50	Heavy showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	39.98	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	32.56	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	7.94
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	24.5

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	7.94
Volume of the Standpipe (litres) (πdp2/4)*10-3	15.6

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**40.1**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Water level below full extent of pump.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH210	1	50	40.00	28/07/2023 14:48
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	30.00	40.00	Wet

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	39.78	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	38.56	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	N/A
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.44
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	4.4

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.44
Volume of the Standpipe (litres) (πdp2/4)*10-3	2.8

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**7.3**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Water beyond maximum extent of pump

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH214	1	50	30.00	31/07/2023 16:08
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	20.00	30.00	Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	29.60	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	29.09	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.91
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	2.9

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.91
Volume of the Standpipe (litres) (πdp2/4)*10-3	1.8

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**4.6**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Insufficient water to purge/sample

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH217	1	19	30.00	28/07/2023 10:42
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	25.00	30.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	29.96	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	17.06	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Waterra PP1	Average Flow Rate (litres/min)	1.0
Time to Purge (mins)	8.00	Number of Well Volumes Purged	0.4
Total Volume Purged (litres)	8.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	5.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	18.2

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	19
Saturated depth (m) (sd) (installation base - groundwater level)	12.94
Volume of the Standpipe (litres) (πdp2/4)*10-3	3.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**21.9**

Sampling Information

Sample Depth (m bgl)	29.96
Sample Type	EW
Sample Reference Number	2
Date and Time Obtained	28/07/2023 11:09

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH217	2	50	6.00	28/07/2023 10:40
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	6.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	6.10	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	5.62	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.38
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	1.2

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.38
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**1.9**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Insufficient water to purge/sample

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH219	1	50	4.00	28/07/2023 10:27
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	4.00	Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.70	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH219	2	50	9.00	28/07/2023 10:39
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	5.00	9.00	Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	8.69	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	8.35	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.65
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	2.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.65
Volume of the Standpipe (litres) (πdp2/4)*10-3	1.3

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**3.3**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Insufficient water to sample/purge

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH220	1	50	39.00	28/07/2023 14:31
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	31.00	39.00	Wet

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	40.10	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH220	2	19	31.00	28/07/2023 14:32
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	31.00	Wet

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	30.40	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	29.80	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	N/A
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.20
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	4.4

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	19
Saturated depth (m) (sd) (installation base - groundwater level)	1.20
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.3

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**4.7**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Insuffiencient water to purge/sample

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH221	1	0	10.00	02/08/2023 11:24
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cover	4.00	10.00	Rain

Installation Inspection

Surface Conditions	Saturated	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.82	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	9.32	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.68
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	177
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	5.5

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	0
Saturated depth (m) (sd) (installation base - groundwater level)	0.68
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**5.5**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Insufficient water to purge/sample

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH222	1	50	4.00	01/08/2023 14:14
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cover	2.00	4.00	Light showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.90	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	146
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH222	2	50	25.00	01/08/2023 14:28
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cover	15.00	25.00	Light showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	24.71	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	21.45	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	12	Number of Well Volumes Purged	1.0
Total Volume Purged (litres)	24.0	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Opaque light brown running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.55
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	146
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	17.3

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	3.55
Volume of the Standpipe (litres) (πdp2/4)*10-3	7.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**24.3**

Sampling Information

Sample Depth (m bgl)	24.71
Sample Type	EW
Sample Reference Number	1
Date and Time Obtained	01/08/2023 14:50

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH223	1	50	10.00	03/08/2023 11:08
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cover	4.00	10.00	Showers

Installation Inspection

Surface Conditions	Saturated	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.58	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	6.59	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Waterra PP1	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.41
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	177
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	25.5

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	3.41
Volume of the Standpipe (litres) (πdp2/4)*10-3	6.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**32.2**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to purge/sample using high flow inertia pump with Waterra PP1

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH224	1	50	10.00	28/07/2023 13:23
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	10.00	Wet

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.90	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	9.10	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	N/A
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.90
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	177
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	6.7

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.90
Volume of the Standpipe (litres) (πdp2/4)*10-3	1.8

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**8.5**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH225	1	50	6.90	02/08/2023 13:48
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	3.00	6.90	Rsin

Installation Inspection

Surface Conditions	Saturated	Damage to Headworks?	No
Check Dip of Base (m bgl)	5.93	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	3.83	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	13.5	Number of Well Volumes Purged	1.7
Total Volume Purged (litres)	27.0	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Light brown running opaque

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.07
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	9.7

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	3.07
Volume of the Standpipe (litres) (πdp2/4)*10-3	6.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**15.7**

Sampling Information

Sample Depth (m bgl)	5.83
Sample Type	EW
Sample Reference Number	2
Date and Time Obtained	02/08/2023 14:12

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH226	1	50	10.00	01/08/2023 15:32
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cover	4.00	6.00	Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.63	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	177
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH227	1	19	5.50	28/07/2023 12:13
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	5.50	rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	5.00	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	3.10	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Waterra PP1	Average Flow Rate (litres/min)	0.2
Time to Purge (mins)	5	Number of Well Volumes Purged	0.0
Total Volume Purged (litres)	0.75	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	Hydrocarbons
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Yellowish grey

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	2.40
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	178
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	19.5

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	19
Saturated depth (m) (sd) (installation base - groundwater level)	2.40
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**20.2**

Sampling Information

Sample Depth (m bgl)	5.00
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	28/07/2023 12:50

Additional Notes and Observations

Well purged dry. Sampled from bucket with partial sample, consisting of 2x40ml vials and 1x1l glass Wichester (approximately half full), retrieved.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH227	2	50	14.00	26/07/2023 11:56
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	8.00	14.00	Raining

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.50	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	10.67	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	10	Number of Well Volumes Purged	1.1
Total Volume Purged (litres)	19.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.33
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	10.5

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	3.33
Volume of the Standpipe (litres) (πdp2/4)*10-3	6.5

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**17.0**

Sampling Information

Sample Depth (m bgl)	14.50
Sample Type	EW
Sample Reference Number	2
Date and Time Obtained	26/07/2023 12:18

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH228	1	50	40.00	26/07/2023 12:20
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	40.00	Cloudy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	36.61	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Damp	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	175
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH229	1	50	14.00	02/08/2023 12:36
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	8.00	14.00	Rain

Installation Inspection

Surface Conditions	Saturated	Damage to Headworks?	No
Check Dip of Base (m bgl)	13.82	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	12.08	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	3.75	Number of Well Volumes Purged	0.8
Total Volume Purged (litres)	7.4	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Opaque light brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.92
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	5.9

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.92
Volume of the Standpipe (litres) (πdp2/4)*10-3	3.8

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**9.7**

Sampling Information

Sample Depth (m bgl)	13.82
Sample Type	EW
Sample Reference Number	1
Date and Time Obtained	02/08/2023 12:54

Additional Notes and Observations

Well purged dry and sample taken

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH229	2	50	3.00	02/08/2023 13:19
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	3.00	Rain

Installation Inspection

Surface Conditions	Saturated	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.82	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH230	1	50	28.00	26/07/2023 12:42
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	28.00	Cloudy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	25.90	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	175
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH231	1	50	25.00	31/07/2023 15:13
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	25.00	Shower

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	25.03	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	21.32	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.68
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	177
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	27.5

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	3.68
Volume of the Standpipe (litres) (πdp2/4)*10-3	7.2

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**34.7**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to purge/sample. Insufficient head of water?

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH232	1	50	7.00	01/08/2023 12:58
Cover Type	**Pipe Cover**	**Top of Response Zone (m bgl)**	**Base of Response Zone (m bgl)**	**Weather**
0	Pipe Plug	1.00	7.00	Cloudy

Installation Inspection

Surface Conditions	Saturated bog	Damage to Headworks?	No
Check Dip of Base (m bgl)	6.95	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	4.45	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	9	Number of Well Volumes Purged	0.8
Total Volume Purged (litres)	18.0	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Light brown running opaque

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	2.55
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	168
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	17.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	2.55
Volume of the Standpipe (litres) (πdp2/4)*10-3	5.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**22.0**

Sampling Information

Sample Depth (m bgl)	6.95
Sample Type	EW
Sample Reference Number	2
Date and Time Obtained	01/08/2023 13:18

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH233	1	50	25.00	26/07/2023 14:31
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	25.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	24.79	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Damp	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	168
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH235	1	50	15.00	31/07/2023 13:50
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	8.00	15.00	Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.78	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Damp	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH236	1	50	15.00	31/07/2023 14:09
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	10.00	15.00	Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.39	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	8.40	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

1

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	N/A
In-situ Parameter Device SN	1029035	Visual Turbidity	N/A
Confirm Field Calibration Completed	Yes	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	5.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	15.7

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	6.60
Volume of the Standpipe (litres) (πdp2/4)*10-3	13.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**28.7**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to purge/sample. Evidence that water was heavily silted.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH237	1	50	24.80	26/07/2023 14:32
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	24.80	Heavy rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	25.50	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	11.90	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	16	Number of Well Volumes Purged	0.5
Total Volume Purged (litres)	31.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	No
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running light brown grey

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	12.90
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	40.6

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	12.90
Volume of the Standpipe (litres) (πdp2/4)*10-3	25.3

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**65.9**

Sampling Information

Sample Depth (m bgl)	25.50
Sample Type	EW
Sample Reference Number	2
Date and Time Obtained	26/07/2023 15:02

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH239	1	50	3.60	25/07/2023 12:15
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	3.60	Windy

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.70	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	1.46	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.1
Time to Purge (mins)	9	Number of Well Volumes Purged	0.8
Total Volume Purged (litres)	19.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	No
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	2.14
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	20.8

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	2.14
Volume of the Standpipe (litres) (πdp2/4)*10-3	4.2

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**25.0**

Sampling Information

Sample Depth (m bgl)	3.70
Sample Type	EW
Sample Reference Number	4
Date and Time Obtained	25/07/2023 12:38

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH239	2	50	10.00	25/07/2023 11:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	7.00	10.00	Windy

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	7.80	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	1.74	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	9	Number of Well Volumes Purged	0.6
Total Volume Purged (litres)	18.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	146
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	14.6

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	8.26
Volume of the Standpipe (litres) (πdp2/4)*10-3	16.2

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**30.8**

Sampling Information

Sample Depth (m bgl)	7.80
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	25/07/2023 12:08

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH240	1	50	6.00	25/07/2023 09:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	6.00	Cloudy/windy

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	no
Check Dip of Base (m bgl)	5.38	Pipe Cover/Bung Present?	yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	1.55	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	14	Number of Well Volumes Purged	0.5
Total Volume Purged (litres)	28.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	No
Confirm Field Calibration Completed	Yes	Groundwater Colour	Light grey running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	4.45
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	43.2

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	4.45
Volume of the Standpipe (litres) (πdp2/4)*10-3	8.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**52.0**

Sampling Information

Sample Depth (m bgl)	5.38
Sample Type	EW
Sample Reference Number	2
Date and Time Obtained	25/07/2023 10:04

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH241	1	50	15.00	31/07/2023 14.36
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	10.00	15.00	Showers

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.80	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	14.20	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	N/A
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.80
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	2.5

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.80
Volume of the Standpipe (litres) (πdp2/4)*10-3	1.6

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**4.1**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Insufficient water to purge/sample

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH242	1	50	3.70	25/07/2023 10:12
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	3.70	Cloudy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.79	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	1.88	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	20.5	Number of Well Volumes Purged	1.9
Total Volume Purged (litres)	41.0	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029305	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Dark brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.82
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	17.7

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.82
Volume of the Standpipe (litres) (πdp2/4)*10-3	3.6

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**21.3**

Sampling Information

Sample Depth (m bgl)	3.79
Sample Type	EW
Sample Reference Number	2
Date and Time Obtained	25/07/2023 10:44

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH243	1	50	6.00	25/07/2023 09:27
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	5.00	6.00	Cloudy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	5.93	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	3.18	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	5	Number of Well Volumes Purged	0.9
Total Volume Purged (litres)	10.0	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown running opaque

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	5.2

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	2.82
Volume of the Standpipe (litres) (πdp2/4)*10-3	5.5

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**10.7**

Sampling Information

Sample Depth (m bgl)	5.93
Sample Type	EW
Sample Reference Number	2
Date and Time Obtained	25/07/2023 09:41

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH243	2	50	3.00	24/07/2023 15:48
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	3.00	Overcast

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	2.98	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH244	1	50	3.50	24/07/2023 11:24
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	3.50	Overcast

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.57	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	3.00	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	N/A
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.50
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	4.9

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.50
Volume of the Standpipe (litres) (πdp2/4)*10-3	1.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**5.8**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Insufficient water to purge/sample.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH244	2	50	10.00	24/07/2023 11/34
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	4.50	10.00	Overcast

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.25	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	2.90	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	10	Number of Well Volumes Purged	0.5
Total Volume Purged (litres)	20.0	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running opaque then clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	5.50
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	28.5

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	7.10
Volume of the Standpipe (litres) (πdp2/4)*10-3	13.9

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**42.4**

Sampling Information

Sample Depth (m bgl)	9.25
Sample Type	EW
Sample Reference Number	2
Date and Time Obtained	24/07/2023 11:56

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH245	1	50	4.00	25/07/2023 11:08
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.50	4.00	Cloudy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.75	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	2.83	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	N/A
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.17
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	11.4

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.17
Volume of the Standpipe (litres) (πdp2/4)*10-3	2.3

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**13.7**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to sample/purge. Material too silty.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH246	1	19	2.80	24/07/2023 14:18
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	2.80	Overcast

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	2.3	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	NA

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	NA
In-situ Parameter Device SN	N/A	Visual Turbidity	NA
Confirm Field Calibration Completed	N/A	Groundwater Colour	NA

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	19
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH246	2	50	8.00	24/07/2023 14:21
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	3.50	8.00	Overcast

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	7.86	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	3.08	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	10	Number of Well Volumes Purged	0.6
Total Volume Purged (litres)	20.0	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Dark brown running opaque then clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	4.50
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	23.3

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	4.92
Volume of the Standpipe (litres) (πdp2/4)*10-3	9.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**33.0**

Sampling Information

Sample Depth (m bgl)	7.86
Sample Type	EW
Sample Reference Number	2
Date and Time Obtained	24/07/2023 14:43

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH247	1	50	9.00	25/07/2023 14:34
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	6.00	9.00	Cloudy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	8.84	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	8.36	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	N/A
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack	
Saturated length of Filter Pack (L) (m)	0.64
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	146
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	3.1
146	
Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.64
Volume of the Standpipe (litres) (πdp2/4)*10-3	1.3
Total Well Volume	
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**4.4**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Insufficient water to purge/sample

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH247	2	50	2.00	25/07/2023 14:25
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	2.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	1.99	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	1.28	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	N/A
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.72
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	7.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.72
Volume of the Standpipe (litres) (πdp2/4)*10-3	1.4

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**8.4**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Insufficient water to purge/sample

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH248	1	50	9.50	25/07/2023 15:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	6.50	9.50	Windy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.26	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	6.10	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	9	Number of Well Volumes Purged	0.8
Total Volume Purged (litres)	18.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	15.5

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	3.40
Volume of the Standpipe (litres) (πdp2/4)*10-3	6.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**22.2**

Sampling Information

Sample Depth (m bgl)	9.26
Sample Type	EW
Sample Reference Number	2
Date and Time Obtained	25/07/2023 15:11

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH248	2	50	4.00	25/072023 16:36
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	4.00	Windy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.90	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH249	1	19	2.80	24/07/2023 14:20
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cap	1.00	2.80	Cloudy

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.14	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring
(see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	19
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH249	2	50	8.00	24/07/2023 14:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	3.50	8.00	Cloudy

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	7.70	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	3.76	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.1
Time to Purge (mins)	11	Number of Well Volumes Purged	0.8
Total Volume Purged (litres)	23.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	4.24
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	22.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	4.24
Volume of the Standpipe (litres) (πdp2/4)*10-3	8.3

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**30.3**

Sampling Information

Sample Depth (m bgl)	7.70
Sample Type	EW
Sample Reference Number	15
Date and Time Obtained	24/07/2023 15:01

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH250	1	50	9.50	26/07/2023 10:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	7.50	9.50	Cloudy

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	no
Check Dip of Base (m bgl)	9.30	Pipe Cover/Bung Present?	yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	3.23	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	9	Number of Well Volumes Purged	0.8
Total Volume Purged (litres)	18.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	2.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	10.4

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	6.27
Volume of the Standpipe (litres) (πdp2/4)*10-3	12.3

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**22.7**

Sampling Information

Sample Depth (m bgl)	9.30
Sample Type	EW
Sample Reference Number	2
Date and Time Obtained	26/07/2023 10:48

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Wlaters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH250	2	50	2.00	26/07/2023 10:20
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	2.00	Cloudy

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	2.03	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH252	1	50	2.60	25/07/2023 12:08
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	2.60	Cloudy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	2.58	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Damp	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	
Total Volume Purged (litres)	N/A	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	0.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**0.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH252	2	50	9.00	25/07/2023 12:19
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	6.00	9.00	Cloudy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	8.87	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	4.07	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	17.5	Number of Well Volumes Purged	1.4
Total Volume Purged (litres)	35.0	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029305	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Dark greyish brown running opaque

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	146
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	14.6

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	4.93
Volume of the Standpipe (litres) (πdp2/4)*10-3	9.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**24.3**

Sampling Information

Sample Depth (m bgl)	8.87
Sample Type	EW
Sample Reference Number	2
Date and Time Obtained	25/07/2023 12:40

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH261	1	50	15.00	26/07/2023 10:21
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	10.00	15.00	Cloudy

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.08	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	9.72	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	60	Number of Well Volumes Purged	3.3
Total Volume Purged (litres)	120.0	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey running light brownish grey

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	5.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	25.9

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	5.28
Volume of the Standpipe (litres) (πdp2/4)*10-3	10.4

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**36.3**

Sampling Information

Sample Depth (m bgl)	14.08
Sample Type	EW
Sample Reference Number	2
Date and Time Obtained	26/07/2023 11:27

Additional Notes and Observations

ORP not settled after 60 minutes. Monitoring terminated and sample taken.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project		Project No		Client	Walters UK Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH261	2	50	8.00	25/07/2023 15:39
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	3.00	8.00	Sunny

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	7.70	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	4.46	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	60	Number of Well Volumes Purged	4.7
Total Volume Purged (litres)	120.0	Operative	JP

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Dark brown running opaque then clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.54
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	18.3

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	3.54
Volume of the Standpipe (litres) (πdp2/4)*10-3	6.9

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**25.3**

Sampling Information

Sample Depth (m bgl)	7.70
Sample Type	EW
Sample Reference Number	1
Date and Time Obtained	25/07/2023 16:41

Additional Notes and Observations

ORP not settled after an hour. Monitoring terminated and sample taken.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S1-BH118	1	50	15.00	29/08/2023 13:40
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	8.00	15.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	15	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	7.13	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	6	Number of Well Volumes Purged	0.3
Total Volume Purged (litres)	12.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	No
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	7.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	22.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	7.87
Volume of the Standpipe (litres) (πdp2/4)*10-3	15.4

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**37.5**

Sampling Information

Sample Depth (m bgl)	7.13
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	29/08/2023 13:57

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S1-BH119	1	50	15.00	29/08/2023 13:03
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	8.00	15.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	15	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	8.00	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	5	Number of Well Volumes Purged	0.3
Total Volume Purged (litres)	9.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	No
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	7.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	22.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	7.00
Volume of the Standpipe (litres) (πdp2/4)*10-3	13.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**35.8**

Sampling Information

Sample Depth (m bgl)	8.00
Sample Type	EW
Sample Reference Number	5
Date and Time Obtained	29/08/2023 13:19

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S1-BH119	2	50	4.00	29/08/2023 12:56
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	4.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	4	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	3.17	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Purging
(see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.83
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	2.6

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.83
Volume of the Standpipe (litres) (πdp2/4)*10-3	1.6

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**4.2**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Insufficient Water for sampling.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S1-BH120	1	50	20.00	29/08/2023 14;20
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	12.00	20.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	20.54	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	9.10	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	5	Number of Well Volumes Purged	0.2
Total Volume Purged (litres)	9.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey Running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	8.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	25.2

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	10.90
Volume of the Standpipe (litres) (πdp2/4)*10-3	21.4

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**46.6**

Sampling Information

Sample Depth (m bgl)	9.10
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	29/08/2023 14:36

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH204	1	50	32.00	04/09/2023 14:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	21.00	32.00	Dry

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	30.17	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	28.11	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Waterra	Average Flow Rate (litres/min)	#DIV/0!
Time to Purge (mins)	0	Number of Well Volumes Purged	0.0
Total Volume Purged (litres)	0.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.89
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	12.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	3.89
Volume of the Standpipe (litres) (πdp2/4)*10-3	7.6

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**19.6**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to extract sample using waterra pump and wasp pump.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH207	1	50	40.00	04/09/2023 13:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	36.00	40.00	Dry

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	39.92	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH208	1	50	40.50	04/09/2023 13:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	32.50	40.50	Dry

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	39.96	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	34.92	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Waterra	Average Flow Rate (litres/min)	#DIV/0!
Time to Purge (mins)	0	Number of Well Volumes Purged	0.0
Total Volume Purged (litres)	0.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	5.58
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	17.2

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	5.58
Volume of the Standpipe (litres) (πdp2/4)*10-3	11.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**28.2**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to obtain sample using waterra pump.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH210	1	50	40.00	04/09/2023 12:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	30.00	40.00	Dry

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	39.89	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	37.68	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Waterra	Average Flow Rate (litres/min)	#DIV/0!
Time to Purge (mins)	0	Number of Well Volumes Purged	0.0
Total Volume Purged (litres)	0.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	2.32
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	7.2

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	2.32
Volume of the Standpipe (litres) (πdp2/4)*10-3	4.6

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**11.7**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to obtain sample using Waterra pump.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH214	1	50	30.00	29/08/2023 10:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	20.00	30.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	29.91	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	29.24	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.76
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	2.4

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.76
Volume of the Standpipe (litres) (πdp2/4)*10-3	1.5

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**3.9**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to obtain a sample due to insufficient water.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH217	1	19	30.00	04/09/2023 14:12
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	25.00	30.00	Dry

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	29.96	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	16.42	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Waterra PP1	Average Flow Rate (litres/min)	1.0
Time to Purge (mins)	4	Number of Well Volumes Purged	0.2
Total Volume Purged (litres)	4.0	Operative	KW

Observations During Purging
(see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	5.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	18.2

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	19
Saturated depth (m) (sd) (installation base - groundwater level)	13.58
Volume of the Standpipe (litres) (πdp2/4)*10-3	3.8

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**22.0**

Sampling Information

Sample Depth (m bgl)	16.42
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	04/09/2023 14:20

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH217	2	50	6.00	30/08/2023 11:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	6.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	6.08	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring
(see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH219	1	50	4.00	30/08/2023 10:34
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	4.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.72	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH219	2	50	9.00	30/08/2023 10:41
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	5.00	9.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	8.68	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH220	1	50	39.00	04/09/2023 09:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	31.00	39.00	Dry

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	40.12	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH220	2	19	31.00	04/09/2023 09:45
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	31.00	Dry

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	30.26	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	29.91	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Number of Well Volumes Purged	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.09
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	4.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	19
Saturated depth (m) (sd) (installation base - groundwater level)	1.09
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.3

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**4.3**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH221	1	0	10.00	29/08/2023 09:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cover	4.00	10.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.79	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	9.21	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring
(see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.79
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	177
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	6.4

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	0
Saturated depth (m) (sd) (installation base - groundwater level)	0.79
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.0

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**6.4**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to sample due to insufficient water.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH222	1	50	4.00	31/08/2023 13:48
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cover	2.00	4.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.86	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	146
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH222	2	50	25.00	31/08/2023 13:46
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cover	15.00	25.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	24.56	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	23.59	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.41
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	146
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	6.9

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.41
Volume of the Standpipe (litres) (πdp2/4)*10-3	2.8

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**9.6**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to sample due to insufficient water.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH223	1	50	10.00	31/08/2023 14:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cover	4.00	10.00	Heavy Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	8	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	7.10	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	2.90
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	177
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	21.7

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	2.90
Volume of the Standpipe (litres) (πdp2/4)*10-3	5.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**27.3**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to sample with Waterra PP1 and wasp pump.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH224	1	50	10.00	25/08/2023 15:56
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	10.00	Rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.83	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	177
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Borehole dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH225	1	50	6.90	31/08/2023 14:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	3.00	6.90	Heavy Rain

Installation Inspection

Surface Conditions	Wet Boggy	Damage to Headworks?	N/A
Check Dip of Base (m bgl)	N/A	Pipe Cover/Bung Present?	N/A

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	N/A	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

No access to position due to poor ground conditions.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH226	1	50	10.00	31/08/2023 13:20
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cover	4.00	6.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.69	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	177
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH227	1	19	5.50	23/08/2023 11:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	5.50	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	5.49	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	5.02	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	N/A

Observations During Purging
(see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.48
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	178
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	3.9

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	19
Saturated depth (m) (sd) (installation base - groundwater level)	0.48
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.1

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**4.0**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Insufficient water for sampling.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH227	2	50	14.00	23/08/2023 10:45
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	8.00	14.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.47	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	13.69	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.31
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	1.0

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.31
Volume of the Standpipe (litres) (πdp2/4)*10-3	0.6

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**1.6**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Insufficient water for sampling.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH228	1	50	40.00	23/08/2023 14:04
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	40.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	36.59	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	175
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH229	1	50	14.00	31/08/2023 13;04
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	8.00	14.00	Heavy Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.2	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	12.40	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	4	Number of Well Volumes Purged	0.9
Total Volume Purged (litres)	7.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running clear.

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.60
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	4.9

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.60
Volume of the Standpipe (litres) (πdp2/4)*10-3	3.1

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**8.1**

Sampling Information

Sample Depth (m bgl)	12.40
Sample Type	EW
Sample Reference Number	2
Date and Time Obtained	31/08/2023 13:15

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH229	2	50	3.00	31/08/2023 12:53
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	3.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	2.81	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	120
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH230	1	50	28.00	23/08/2023 13:42
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	28.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	25.92	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	175
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH231	1	50	25.00	30/08/2023 14:36
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	25.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	25.05	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	22.12	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Waterra PP1	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	2.88
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	177
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	21.5

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	2.88
Volume of the Standpipe (litres) (πdp2/4)*10-3	5.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**27.2**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to obtain sample with Waterra PP1 and Wasp Pump.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH232	1	50	7.00	31/08/2023 00:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
0	Pipe Plug	1.00	7.00	Heavy Rain

Installation Inspection

Surface Conditions	Wet Boggy	Damage to Headworks?	N/A
Check Dip of Base (m bgl)	N/A	Pipe Cover/Bung Present?	N/A

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	N/A	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	168
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to access position due to poor ground conditions.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH233	1	50	25.00	25/08/2023 14:36
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	25.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	25	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	168
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH235	1	50	15.00	23/08/2023 15:22
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	8.00	15.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.7	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH236	1	50	15.00	30/08/2023 00:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	10.00	15.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.42	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	13.14	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Waterra PP1	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.86
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	5.8

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.86
Volume of the Standpipe (litres) (πdp2/4)*10-3	3.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**9.5**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to obtain sample using Waterra PP1 or Wasp Pump.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH237	1	50	24.80	25/08/2023 13:52
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	2.00	24.80	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	25.27	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	12.47	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.5
Time to Purge (mins)	8	Number of Well Volumes Purged	0.3
Total Volume Purged (litres)	20.0	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	AquaTroll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	No
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	12.33
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	38.8

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	12.33
Volume of the Standpipe (litres) (πdp2/4)*10-3	24.2

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**63.0**

Sampling Information

Sample Depth (m bgl)	12.47
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	25/08/2023 14:14

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH239	1	50	3.60	22/08/2023 15:27
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	3.60	Overcast, light rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.6	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

n/a

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	1.37	LNAPL/ DNAPL (m bgl)	None present

Purging Details

Purge Method/ Device	WASP Pump	Average Flow Rate (litres/min)	4.4
Time to Purge (mins)	5	Number of Well Volumes Purged	0.8
Total Volume Purged (litres)	22.0	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	AQUA TROLL 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	No
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown to clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	2.23
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	21.7

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	2.23
Volume of the Standpipe (litres) (πdp2/4)*10-3	4.4

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**26.0**

Sampling Information

Sample Depth (m bgl)	1.37
Sample Type	EW
Sample Reference Number	5
Date and Time Obtained	22/08/2023 15:36

Additional Notes and Observations

n/a

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH239	2	50	10.00	22/08/2023 15:42
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	7.00	10.00	Overcast, light rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	7.59	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	1.92	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	WASP Pump	Average Flow Rate (litres/min)	5.6
Time to Purge (mins)	5	Number of Well Volumes Purged	0.9
Total Volume Purged (litres)	28.0	Operative	FT

Observations During Purging
(see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	AQUA TROLL 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Yellowish brown to greyish brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	146
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	14.6

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	8.08
Volume of the Standpipe (litres) (πdp2/4)*10-3	15.9

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**30.5**

Sampling Information

Sample Depth (m bgl)	1.92
Sample Type	EW
Sample Reference Number	6
Date and Time Obtained	22/08/2023 15:50

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH240	1	50	6.00	22/08/2023 14:52
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	6.00	Overcast, light rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	5.28	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	1.51	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	WASP Pump	Average Flow Rate (litres/min)	4.3
Time to Purge (mins)	10	Number of Well Volumes Purged	0.8
Total Volume Purged (litres)	43.0	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	AQUA TROLL 400	Groundwater Odour	Slight hydrocarbon odour
In-situ Parameter Device SN	1029035	Visual Turbidity	No
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish bown to clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	4.49
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	43.6

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	4.49
Volume of the Standpipe (litres) (πdp2/4)*10-3	8.8

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**52.4**

Sampling Information

Sample Depth (m bgl)	1.51
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	22/08/2023 14:52

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH241	1	50	15.00	23/08/2023 14:32
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	10.00	15.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.77	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	14.16	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.84
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	121
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	2.6

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.84
Volume of the Standpipe (litres) (πdp2/4)*10-3	1.6

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**4.3**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to purge due to insufficient water.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH242	1	50	3.70	22/08/2023 11:24
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	3.70	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.74	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	2.10	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	10	Number of Well Volumes Purged	1.0
Total Volume Purged (litres)	19.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	No
Confirm Field Calibration Completed	Yes	Groundwater Colour	light brown running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.60
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	15.5

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	1.60
Volume of the Standpipe (litres) (πdp2/4)*10-3	3.1

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**18.7**

Sampling Information

Sample Depth (m bgl)	3.74
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	22/08/2023 11:30

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH243	1	50	6.00	22/08/2023 15:16
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	5.00	6.00	Overcast - light rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	None
Check Dip of Base (m bgl)	5.86	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	3.18	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	WASP Pump	Average Flow Rate (litres/min)	3.0
Time to Purge (mins)	10	Number of Well Volumes Purged	2.8
Total Volume Purged (litres)	30.0	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown to clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	1.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	5.2

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	2.82
Volume of the Standpipe (litres) (πdp2/4)*10-3	5.5

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**10.7**

Sampling Information

Sample Depth (m bgl)	5.86
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	21/08/2023 15:11

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH243	2	50	3.00	21/08/2023 14:35
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	3.00	Overcast - light rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	None
Check Dip of Base (m bgl)	2.93	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Borehole dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH244	1	50	3.50	21/08/2023 14:29
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	3.50	Rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.42	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	2.65	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Purging (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.85
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	8.3

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.85
Volume of the Standpipe (litres) (πdp2/4)*10-3	1.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**9.9**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to sample, insufficient water.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH244	2	50	10.00	21//08/2023 14:52
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	4.50	10.00	Wet

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	9.44	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	2.77	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	7	Number of Well Volumes Purged	0.3
Total Volume Purged (litres)	13.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	No
Confirm Field Calibration Completed	Yes	Groundwater Colour	light Brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	5.50
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	28.5

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	7.23
Volume of the Standpipe (litres) (πdp2/4)*10-3	14.2

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**42.7**

Sampling Information

Sample Depth (m bgl)	9.44
Sample Type	EW
Sample Reference Number	2
Date and Time Obtained	21/08/2023 15:09

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH245	1	50	4.00	22/08/2023 10:49
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.50	4.00	Rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.82	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	3.16	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	0.84
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	8.2

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	0.84
Volume of the Standpipe (litres) (πdp2/4)*10-3	1.6

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**9.8**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Unable to sample due to insufficient water.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH246	1	19	2.80	21/08/2023 13:43
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	2.80	Rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	2.5	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	19
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH246	2	50	8.00	21/08/2023 13:51
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	3.50	8.00	Wet

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	8.01	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	2.96	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	7	Number of Well Volumes Purged	0.4
Total Volume Purged (litres)	14.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No
In-situ Parameter Device SN	877732	Visual Turbidity	No
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	4.50
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	23.3

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	5.04
Volume of the Standpipe (litres) (πdp2/4)*10-3	9.9

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**33.2**

Sampling Information

Sample Depth (m bgl)	8.01
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	21/08/2023 14:11

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH247	1	50	9.00	22/08/2023 10:30
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	6.00	9.00	Overcast, dry

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	None
Check Dip of Base (m bgl)	8.84	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	FT

Observations During Purging
(see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	146
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

146

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Borehole dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH247	2	50	2.00	22/08/2023 10:45
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	2.00	Overcast, dry

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	None
Check Dip of Base (m bgl)	1.96	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Borehole dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH248	1	50	9.50	25/08/2023 11:09
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	6.50	9.50	Rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	8.95	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	6.00	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.9
Time to Purge (mins)	8	Number of Well Volumes Purged	1.0
Total Volume Purged (litres)	23.0	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	No
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown Running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	15.5

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	3.50
Volume of the Standpipe (litres) (πdp2/4)*10-3	6.9

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**22.4**

Sampling Information

Sample Depth (m bgl)	6.00
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	25/08/2023 11:17

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH248	2	50	4.00	25/08/2023 11:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	4.00	Rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	3.9	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH249	1	19	2.80	21/08/2023 13:50
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Cap	1.00	2.80	Overcast - light rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	None
Check Dip of Base (m bgl)	3.14	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	19
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH249	2	50	8.00	21/08/2023 13:55
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	3.50	8.00	Overast -light rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	None
Check Dip of Base (m bgl)	7.49	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	3.69	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.5
Time to Purge (mins)	10	Number of Well Volumes Purged	0.8
Total Volume Purged (litres)	25.0	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	N/A
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	4.31
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	22.3

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	4.31
Volume of the Standpipe (litres) (πdp2/4)*10-3	8.5

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**30.8**

Sampling Information

Sample Depth (m bgl)	7.49
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	21/08/2023 14:10

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH250	1	50	9.50	24/08/2023 16:00
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	7.50	9.50	Rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	8.97	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	3.21	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	4.4
Time to Purge (mins)	5	Number of Well Volumes Purged	1.0
Total Volume Purged (litres)	22.0	Operative	FT

Observations During Purging
(see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No
In-situ Parameter Device SN	1029035	Visual Turbidity	No
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	2.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	10.4

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	6.29
Volume of the Standpipe (litres) (πdp2/4)*10-3	12.3

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**22.7**

Sampling Information

Sample Depth (m bgl)	3.21
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	24/08/2023 16:10

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH250	2	50	2.00	24/08/2023 15:33
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	2.00	Rain

Installation Inspection

Surface Conditions	Damp	Damage to Headworks?	No
Check Dip of Base (m bgl)	2.07	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH252	1	50	2.60	22/08/2023 13:45
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	1.00	2.60	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	2.55	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	200
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH252	2	50	9.00	22/08/2023 13:54
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	6.00	9.00	Rain

Installation Inspection

Surface Conditions	Wet	Damage to Headworks?	No
Check Dip of Base (m bgl)	9	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	4.50	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0
Time to Purge (mins)	8	Number of Well Volumes Purged	0.7
Total Volume Purged (litres)	16.0	Operative	KW

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	Earthy odour
In-situ Parameter Device SN	877732	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey running clear

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	3.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	146
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	14.6

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	4.50
Volume of the Standpipe (litres) (πdp2/4)*10-3	8.8

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**23.5**

Sampling Information

Sample Depth (m bgl)	9.00
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	22/08/2023 14:00

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH261	1	50	15.00	22/08/2023 11:56
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	10.00	15.00	Overcast Dry

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	No
Check Dip of Base (m bgl)	14.06	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	9.56	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	WASP Pump	Average Flow Rate (litres/min)	3.2
Time to Purge (mins)	10	Number of Well Volumes Purged	0.9
Total Volume Purged (litres)	32.0	Operative	FT

Observations During Puring (see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	AQUA TROLL 400	Groundwater Odour	No
In-situ Parameter Device SN	SN1029035	Visual Turbidity	Yes
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	5.00
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	25.9

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	5.44
Volume of the Standpipe (litres) (πdp2/4)*10-3	10.7

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**36.6**

Sampling Information

Sample Depth (m bgl)	9.56
Sample Type	EW
Sample Reference Number	3
Date and Time Obtained	22/08/2023 11:56

Additional Notes and Observations

N/A

INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Montoring	Project No	G23012C	Client	Walters Uk Limited

Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time
S2-BH261	2	50	8.00	22/08/2023 11:41
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather
Box Cover	Pipe Plug	3.00	8.00	Overcst dry

Installation Inspection

Surface Conditions	Dry	Damage to Headworks?	None
Check Dip of Base (m bgl)	7.81	Pipe Cover/Bung Present?	Yes

Remedial actions undertaken to well:

N/A

Purging and Sampling

Guidance Notes

Well development undertaken in accordance with BS10175:2011+A2:2017.

Purge volumes to include the annulus of the filter pack.

Purging must continue until insitu parameters have stabilised unless agreed with clients representative.

Approx. Guidance Volumes for Field Calculation of Wet Well Volume

Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre

Groundwater Prior to Purging and Sampling

Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A

Purging Details

Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!
Total Volume Purged (litres)	N/A	Operative	FT

Observations During Purging
(see Vu-situ output for insitu parameter readings)

In-situ Parameter Device Model	N/A	Groundwater Odour	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A

Well Volume Calculation

Volume of the Filter Pack

Saturated length of Filter Pack (L) (m)	#VALUE!
Porosity of Filter Pack (ø)	0.33
Diameter of Filter Pack (mm) (df)	150
Volume of Filter Pack (litres) (Lø)((πdf2/4)-((πdp2/4))	#VALUE!

Volume of the Standpipe

Diameter of Standpipe (mm) (dp)	50
Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!
Volume of the Standpipe (litres) (πdp2/4)*10-3	#VALUE!

Total Well Volume

Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	**#VALUE!**

Sampling Information

Sample Depth (m bgl)	N/A
Sample Type	N/A
Sample Reference Number	N/A
Date and Time Obtained	N/A

Additional Notes and Observations

Well dry, unable to purge.

Low-Flow Test Report:

Test Date / Time: 29/06/2023 10:53:04
Project: GCRE 2
Operator Name: JP

Location Name: S1-BH118 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 7 m** **Top of Screen: 8 m** **Total Depth: 14.92 m** **Initial Depth to Water: 7.76 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 12000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
29/06/2023 10:53	00:00	6.99 pH	15.43 °C	542.87 µS/cm	2.60 mg/L		-30.9 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:53	00:30	6.99 pH	14.21 °C	554.89 µS/cm	0.89 mg/L		-31.6 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:54	01:00	6.98 pH	13.34 °C	558.08 µS/cm	0.40 mg/L		-31.7 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:54	01:30	6.96 pH	12.94 °C	553.99 µS/cm	0.30 mg/L		-31.4 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:55	02:00	6.94 pH	12.69 °C	543.34 µS/cm	0.27 mg/L		-30.7 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:55	02:30	6.91 pH	12.58 °C	530.82 µS/cm	0.26 mg/L		-29.9 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:56	03:00	6.90 pH	12.58 °C	523.55 µS/cm	0.26 mg/L		-29.4 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:56	03:30	6.88 pH	12.60 °C	517.52 µS/cm	0.26 mg/L		-29.0 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:57	04:00	6.86 pH	12.66 °C	510.38 µS/cm	0.26 mg/L		-28.0 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:57	04:30	6.87 pH	12.76 °C	508.12 µS/cm	0.27 mg/L		-28.4 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:58	05:00	6.86 pH	12.71 °C	503.21 µS/cm	0.27 mg/L		-28.0 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:58	05:30	6.86 pH	12.71 °C	499.64 µS/cm	0.28 mg/L		-27.6 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:59	06:00	6.86 pH	12.70 °C	498.49 µS/cm	0.29 mg/L		-44.8 mV	776.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Low-Flow Test Report:

Test Date / Time: 6/29/2023 11:14:17 AM
Project: GCRE2
Operator Name: CE

Location Name: S1-BH119.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 7 m** **Top of Screen: 8 m** **Total Depth: 15 m** **Initial Depth to Water: 7.61 m**	**Pump Type: Wasp pump** **Estimated Total Volume Pumped: 36000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/29/2023 11:14 AM	00:00	7.38 pH	19.11 °C	462.61 µS/cm	5.70 mg/L		404.4 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:14 AM	00:30	7.30 pH	15.17 °C	415.21 µS/cm	1.27 mg/L		744.3 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:15 AM	01:00	7.41 pH	13.91 °C	412.16 µS/cm	0.28 mg/L		915.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:15 AM	01:30	7.45 pH	13.27 °C	417.30 µS/cm	0.17 mg/L		962.3 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:16 AM	02:00	7.48 pH	12.88 °C	421.07 µS/cm	0.28 mg/L		976.0 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:16 AM	02:30	7.49 pH	12.67 °C	420.46 µS/cm	0.55 mg/L		980.2 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:17 AM	03:00	7.49 pH	12.61 °C	419.07 µS/cm	1.09 mg/L		980.9 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:17 AM	03:30	7.50 pH	12.58 °C	414.13 µS/cm	1.25 mg/L		981.5 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:18 AM	04:00	7.50 pH	12.58 °C	407.72 µS/cm	0.78 mg/L		978.6 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:18 AM	04:30	7.50 pH	12.58 °C	399.67 µS/cm	1.28 mg/L		979.1 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:19 AM	05:00	7.49 pH	12.63 °C	395.64 µS/cm	1.43 mg/L		978.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:19 AM	05:30	7.49 pH	12.69 °C	371.96 µS/cm	1.62 mg/L		975.9 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:20 AM	06:00	7.49 pH	12.26 °C	387.74 µS/cm	0.39 mg/L		975.4 mV	761.00 cm	2,000.0 ml/min

6/29/2023 11:20 AM	06:30	7.48 pH	12.21 °C	390.25 µS/cm	0.13 mg/L		972.6 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:21 AM	07:00	7.48 pH	12.22 °C	392.34 µS/cm	0.07 mg/L		967.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:21 AM	07:30	7.48 pH	12.19 °C	392.65 µS/cm	0.05 mg/L		964.6 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:22 AM	08:00	7.47 pH	12.14 °C	393.26 µS/cm	0.04 mg/L		961.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:22 AM	08:30	7.47 pH	12.14 °C	393.06 µS/cm	0.03 mg/L		958.4 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:23 AM	09:00	7.47 pH	12.17 °C	392.83 µS/cm	0.03 mg/L		955.1 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:23 AM	09:30	7.47 pH	12.21 °C	392.80 µS/cm	0.27 mg/L		962.6 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:24 AM	10:00	7.47 pH	12.22 °C	393.47 µS/cm	0.15 mg/L		956.9 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:24 AM	10:30	7.46 pH	12.23 °C	394.74 µS/cm	0.07 mg/L		951.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:25 AM	11:00	7.46 pH	12.26 °C	395.76 µS/cm	0.04 mg/L		947.5 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:25 AM	11:30	7.46 pH	12.35 °C	397.08 µS/cm	0.32 mg/L		948.6 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:26 AM	12:00	7.46 pH	12.43 °C	411.83 µS/cm	0.90 mg/L		950.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:26 AM	12:30	7.46 pH	12.49 °C	398.03 µS/cm	1.07 mg/L		950.0 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:27 AM	13:00	7.46 pH	12.58 °C	399.77 µS/cm	0.96 mg/L		947.2 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:27 AM	13:30	7.46 pH	12.72 °C	401.86 µS/cm	1.30 mg/L		944.5 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:28 AM	14:00	7.47 pH	12.70 °C	396.95 µS/cm	1.07 mg/L		944.6 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:28 AM	14:30	7.47 pH	12.12 °C	394.73 µS/cm	0.17 mg/L		943.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:29 AM	15:00	7.47 pH	12.05 °C	397.03 µS/cm	0.05 mg/L		940.3 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:29 AM	15:30	7.47 pH	11.94 °C	399.76 µS/cm	0.02 mg/L		937.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:30 AM	16:00	7.47 pH	12.12 °C	0.00 µS/cm	0.62 mg/L		993.9 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:30 AM	16:30	7.50 pH	12.16 °C	397.27 µS/cm	1.97 mg/L		939.5 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:31 AM	17:00	7.50 pH	11.80 °C	396.36 µS/cm	0.30 mg/L		937.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:31 AM	17:30	7.79 pH	11.89 °C	3.13 µS/cm	0.16 mg/L		1,039.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:32 AM	18:00	7.79 pH	11.98 °C	2.02 µS/cm	0.35 mg/L		1,035.5 mV	761.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/29/2023 12:16:15 PM
Project: GCRE2
Operator Name: CE

Location Name: S1-BH120 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 8 m** **Top of Screen: 12 m** **Total Depth: 19.41 m** **Initial Depth to Water: 9.27 m**	**Pump Type: Wasp pump** **Estimated Total Volume Pumped: 12000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/29/2023 12:16 PM	00:00	7.75 pH	17.90 °C	279.05 µS/cm	5.59 mg/L		371.4 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:16 PM	00:30	7.67 pH	16.11 °C	291.32 µS/cm	1.95 mg/L		745.9 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:17 PM	01:00	7.64 pH	14.50 °C	298.55 µS/cm	0.68 mg/L		899.9 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:17 PM	01:30	7.62 pH	13.63 °C	300.43 µS/cm	0.30 mg/L		938.3 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:18 PM	02:00	7.60 pH	13.13 °C	303.02 µS/cm	0.19 mg/L		943.6 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:18 PM	02:30	7.58 pH	12.80 °C	304.54 µS/cm	0.16 mg/L		947.4 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:19 PM	03:00	7.55 pH	12.62 °C	305.74 µS/cm	0.14 mg/L		945.9 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:19 PM	03:30	7.54 pH	12.52 °C	304.40 µS/cm	0.12 mg/L		942.8 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:20 PM	04:00	7.52 pH	12.49 °C	303.78 µS/cm	0.12 mg/L		941.4 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:20 PM	04:30	7.50 pH	12.60 °C	305.01 µS/cm	0.12 mg/L		939.2 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:21 PM	05:00	7.48 pH	12.76 °C	305.55 µS/cm	0.12 mg/L		936.8 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:21 PM	05:30	7.46 pH	12.92 °C	305.81 µS/cm	0.13 mg/L		934.2 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:22 PM	06:00	7.45 pH	13.07 °C	306.11 µS/cm	0.13 mg/L		934.2 mV	927.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Low-Flow Test Report:

Test Date / Time: 06/07/2023 12:49:32
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH217.1 **Well Diameter: 1.9 cm** **Casing Type: Plastic** **Screen Length: 5 m** **Top of Screen: 25 m** **Total Depth: 29.55 m** **Initial Depth to Water: 15.62 m**	**Pump Type: Waterra PP1** **Estimated Total Volume Pumped: 10000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 750 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Shower

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
06/07/2023 12:49	00:00	7.31 pH	14.58 °C	517.20 µS/cm	0.19 mg/L		-1.5 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:50	00:30	7.35 pH	15.21 °C	496.86 µS/cm	0.24 mg/L		0.2 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:50	01:00	7.36 pH	13.16 °C	483.86 µS/cm	0.21 mg/L		1.4 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:51	01:30	7.35 pH	12.39 °C	490.40 µS/cm	0.16 mg/L		2.2 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:51	02:00	7.32 pH	12.01 °C	478.78 µS/cm	0.15 mg/L		-0.7 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:52	02:30	7.31 pH	11.80 °C	488.79 µS/cm	0.14 mg/L		-0.9 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:52	03:00	7.32 pH	11.71 °C	502.57 µS/cm	0.11 mg/L		0.2 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:53	03:30	7.33 pH	11.75 °C	509.59 µS/cm	0.08 mg/L		0.9 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:53	04:00	7.34 pH	11.84 °C	512.83 µS/cm	0.07 mg/L		1.5 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:54	04:30	7.35 pH	11.95 °C	515.40 µS/cm	0.06 mg/L		1.9 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:54	05:00	7.36 pH	11.98 °C	517.46 µS/cm	0.06 mg/L		2.6 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:55	05:30	7.37 pH	12.00 °C	519.80 µS/cm	0.06 mg/L		3.0 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:55	06:00	7.37 pH	12.10 °C	522.58 µS/cm	0.06 mg/L		3.6 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:56	06:30	7.36 pH	12.16 °C	523.95 µS/cm	0.06 mg/L		4.2 mV	1,562.0 cm	1,000.00 ml/min

06/07/2023 12:56	07:00	7.35 pH	12.24 °C	527.01 µS/cm	0.07 mg/L		4.6 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:57	07:30	7.36 pH	12.37 °C	528.53 µS/cm	0.07 mg/L		4.4 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:57	08:00	7.37 pH	12.53 °C	532.07 µS/cm	0.07 mg/L		4.4 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:58	08:30	7.36 pH	12.72 °C	532.15 µS/cm	0.07 mg/L		4.5 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:58	09:00	7.33 pH	12.90 °C	530.61 µS/cm	0.08 mg/L		5.1 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:59	09:30	7.41 pH	13.13 °C	530.51 µS/cm	0.08 mg/L		3.2 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:59	10:00	8.49 pH	12.16 °C	725.11 µS/cm	0.06 mg/L		-8.2 mV	1,562.0 cm	1,000.00 ml/min

Samples

Sample ID:	Description:
EW1	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 05/07/2023 10:27:03
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH225 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 3 m** **Top of Screen: 3 m** **Total Depth: 5.89 m** **Initial Depth to Water: 3.98 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 15000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Showers

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
05/07/2023 10:27	00:00	7.59 pH	14.03 °C	462.42 µS/cm	5.85 mg/L		15.3 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:27	00:30	7.39 pH	13.82 °C	461.02 µS/cm	2.62 mg/L		13.8 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:28	01:00	7.29 pH	13.12 °C	462.17 µS/cm	1.54 mg/L		13.1 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:28	01:30	7.25 pH	12.58 °C	435.30 µS/cm	1.17 mg/L		11.4 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:29	02:00	7.20 pH	12.35 °C	426.14 µS/cm	0.87 mg/L		7.1 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:29	02:30	7.15 pH	12.12 °C	422.51 µS/cm	0.64 mg/L		2.5 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:30	03:00	7.11 pH	11.86 °C	412.28 µS/cm	0.46 mg/L		-0.5 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:30	03:30	7.08 pH	11.83 °C	371.53 µS/cm	0.39 mg/L		-1.2 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:31	04:00	7.03 pH	11.48 °C	313.53 µS/cm	0.41 mg/L		0.3 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:31	04:30	6.96 pH	11.06 °C	244.28 µS/cm	0.40 mg/L		3.0 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:32	05:00	6.89 pH	10.87 °C	219.92 µS/cm	0.35 mg/L		4.6 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:32	05:30	6.85 pH	10.75 °C	213.53 µS/cm	0.30 mg/L		5.1 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:33	06:00	6.82 pH	10.68 °C	209.66 µS/cm	0.27 mg/L		5.0 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:33	06:30	6.80 pH	10.64 °C	210.80 µS/cm	0.25 mg/L		5.2 mV	398.00 cm	2,000.0 ml/min

05/07/2023 10:34	07:00	6.79 pH	10.60 °C	210.96 µS/cm	0.25 mg/L		5.0 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:34	07:30	6.79 pH	10.57 °C	209.75 µS/cm	0.25 mg/L		4.5 mV	398.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/29/2023 3:52:41 PM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH227.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 6 m** **Top of Screen: 8 m** **Total Depth: 14.35 m** **Initial Depth to Water: 11.09 m**	**Pump Type: Wasp pump** **Estimated Total Volume Pumped: 58000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/29/2023 3:52 PM	00:00	7.54 pH	11.78 °C	288.38 µS/cm	0.12 mg/L		375.6 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:53 PM	00:30	7.53 pH	11.76 °C	288.96 µS/cm	0.09 mg/L		707.1 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:53 PM	01:00	7.53 pH	11.75 °C	288.83 µS/cm	0.07 mg/L		852.0 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:54 PM	01:30	7.50 pH	11.71 °C	288.95 µS/cm	0.07 mg/L		923.6 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:54 PM	02:00	7.51 pH	11.76 °C	289.60 µS/cm	0.08 mg/L		927.5 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:55 PM	02:30	7.50 pH	11.84 °C	290.02 µS/cm	0.06 mg/L		953.2 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:55 PM	03:00	7.49 pH	11.93 °C	290.41 µS/cm	0.06 mg/L		939.5 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:56 PM	03:30	7.49 pH	11.96 °C	290.45 µS/cm	0.06 mg/L		938.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:56 PM	04:00	7.48 pH	11.99 °C	290.59 µS/cm	0.06 mg/L		956.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:57 PM	04:30	7.48 pH	12.03 °C	290.71 µS/cm	0.06 mg/L		937.5 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:57 PM	05:00	7.47 pH	12.04 °C	290.73 µS/cm	0.06 mg/L		954.3 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:58 PM	05:30	7.47 pH	12.03 °C	291.20 µS/cm	0.06 mg/L		932.6 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:58 PM	06:00	7.47 pH	12.03 °C	291.60 µS/cm	0.05 mg/L		928.3 mV	1,109.0 cm	2,000.0 ml/min

6/29/2023 3:59 PM	06:30	7.47 pH	11.98 °C	291.45 µS/cm	0.05 mg/L		953.6 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:59 PM	07:00	7.47 pH	11.94 °C	291.69 µS/cm	0.05 mg/L		938.5 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:00 PM	07:30	7.46 pH	11.91 °C	291.66 µS/cm	0.06 mg/L		930.9 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:00 PM	08:00	7.46 pH	11.88 °C	291.83 µS/cm	0.06 mg/L		923.0 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:01 PM	08:30	7.46 pH	11.87 °C	292.12 µS/cm	0.06 mg/L		921.0 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:01 PM	09:00	7.46 pH	11.86 °C	292.41 µS/cm	0.06 mg/L		939.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:02 PM	09:30	7.46 pH	11.89 °C	292.86 µS/cm	0.06 mg/L		933.1 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:02 PM	10:00	7.46 pH	11.94 °C	292.77 µS/cm	0.06 mg/L		926.7 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:03 PM	10:30	7.46 pH	11.94 °C	292.83 µS/cm	0.06 mg/L		914.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:03 PM	11:00	7.46 pH	11.94 °C	293.04 µS/cm	0.06 mg/L		909.2 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:04 PM	11:30	7.46 pH	11.94 °C	292.92 µS/cm	0.06 mg/L		934.0 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:04 PM	12:00	7.47 pH	11.98 °C	293.38 µS/cm	0.06 mg/L		909.7 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:05 PM	12:30	7.47 pH	12.04 °C	293.73 µS/cm	0.06 mg/L		927.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:05 PM	13:00	7.47 pH	12.09 °C	293.90 µS/cm	0.05 mg/L		905.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:06 PM	13:30	7.47 pH	12.13 °C	294.06 µS/cm	0.05 mg/L		903.2 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:06 PM	14:00	7.47 pH	12.14 °C	293.90 µS/cm	0.05 mg/L		923.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:07 PM	14:30	7.47 pH	12.17 °C	294.19 µS/cm	0.05 mg/L		903.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:07 PM	15:00	7.47 pH	12.21 °C	294.50 µS/cm	0.05 mg/L		902.0 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:08 PM	15:30	7.47 pH	12.26 °C	294.60 µS/cm	0.05 mg/L		917.6 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:08 PM	16:00	7.47 pH	12.31 °C	294.86 µS/cm	0.05 mg/L		907.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:09 PM	16:30	7.47 pH	12.36 °C	294.94 µS/cm	0.05 mg/L		901.7 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:09 PM	17:00	7.47 pH	12.40 °C	295.11 µS/cm	0.05 mg/L		894.1 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:10 PM	17:30	7.46 pH	12.44 °C	295.02 µS/cm	0.05 mg/L		895.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:10 PM	18:00	7.47 pH	12.40 °C	294.72 µS/cm	0.05 mg/L		915.5 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:11 PM	18:30	7.47 pH	12.35 °C	294.49 µS/cm	0.05 mg/L		894.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:11 PM	19:00	7.47 pH	12.26 °C	294.03 µS/cm	0.04 mg/L		916.2 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:12 PM	19:30	7.47 pH	12.26 °C	294.22 µS/cm	0.04 mg/L		889.1 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:12 PM	20:00	7.47 pH	12.26 °C	294.51 µS/cm	0.04 mg/L		909.2 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:13 PM	20:30	7.47 pH	12.30 °C	294.72 µS/cm	0.04 mg/L		896.4 mV	1,109.0 cm	2,000.0 ml/min

6/29/2023 4:13 PM	21:00	7.47 pH	12.33 °C	295.64 µS/cm	0.04 mg/L		880.9 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:14 PM	21:30	7.47 pH	12.36 °C	295.78 µS/cm	0.04 mg/L		908.0 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:14 PM	22:00	7.47 pH	12.44 °C	296.19 µS/cm	0.04 mg/L		883.1 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:15 PM	22:30	7.47 pH	12.58 °C	296.73 µS/cm	0.05 mg/L		881.3 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:15 PM	23:00	7.46 pH	12.67 °C	298.06 µS/cm	0.06 mg/L		904.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:16 PM	23:30	7.46 pH	12.86 °C	298.01 µS/cm	0.06 mg/L		878.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:16 PM	24:00	7.46 pH	12.99 °C	297.77 µS/cm	0.07 mg/L		898.1 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:17 PM	24:30	7.46 pH	13.09 °C	297.41 µS/cm	0.07 mg/L		876.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:17 PM	25:00	7.46 pH	13.22 °C	297.13 µS/cm	0.08 mg/L		873.1 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:18 PM	25:30	7.46 pH	13.28 °C	297.45 µS/cm	0.08 mg/L		902.7 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:18 PM	26:00	7.46 pH	13.43 °C	297.79 µS/cm	0.09 mg/L		882.0 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:19 PM	26:30	7.45 pH	13.58 °C	297.74 µS/cm	0.10 mg/L		877.5 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:19 PM	27:00	7.45 pH	13.72 °C	298.02 µS/cm	0.10 mg/L		878.5 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:20 PM	27:30	7.45 pH	13.81 °C	298.59 µS/cm	0.11 mg/L		861.2 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:20 PM	28:00	7.45 pH	13.94 °C	298.45 µS/cm	0.11 mg/L		891.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:21 PM	28:30	7.45 pH	14.09 °C	298.09 µS/cm	0.12 mg/L		867.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:21 PM	29:00	7.45 pH	14.13 °C	298.30 µS/cm	0.12 mg/L		822.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:22 PM	29:30		13.40 °C	292.31 µS/cm	0.09 mg/L		906.4 mV		
6/29/2023 4:26 PM	33:29	7.48 pH	11.65 °C	294.12 µS/cm	0.01 mg/L		379.5 mV		
6/29/2023 4:26 PM	33:59	7.48 pH	11.63 °C	294.24 µS/cm	0.01 mg/L		738.0 mV		
6/29/2023 4:27 PM	34:26	7.48 pH	11.61 °C	294.03 µS/cm	0.01 mg/L		878.1 mV		
6/29/2023 4:27 PM	34:56	7.49 pH	11.57 °C	294.47 µS/cm	0.01 mg/L		878.9 mV		
6/29/2023 4:28 PM	35:26	7.49 pH	11.57 °C	294.66 µS/cm	0.01 mg/L		878.3 mV		
6/29/2023 4:28 PM	35:56	7.49 pH	11.56 °C	294.93 µS/cm	0.01 mg/L		886.4 mV		
6/29/2023 4:29 PM	36:26	7.49 pH	11.56 °C	295.08 µS/cm	0.01 mg/L		910.4 mV		
6/29/2023 4:29 PM	36:56	7.49 pH	11.52 °C	295.13 µS/cm	0.01 mg/L		911.7 mV		
6/29/2023 4:30 PM	37:26	7.49 pH	11.48 °C	295.24 µS/cm	0.01 mg/L		864.6 mV		
6/29/2023 4:30 PM	37:56	7.49 pH	11.45 °C	295.48 µS/cm	0.01 mg/L		881.6 mV		
6/29/2023 4:31 PM	38:26	7.49 pH	11.42 °C	295.69 µS/cm	0.01 mg/L		870.7 mV		

6/29/2023 4:31 PM	38:56	7.49 pH	11.40 °C	295.93 µS/cm	0.01 mg/L		851.3 mV		
6/29/2023 4:32 PM	39:26	7.49 pH	11.39 °C	295.97 µS/cm	0.01 mg/L		888.5 mV		
6/29/2023 4:32 PM	39:56	7.49 pH	11.39 °C	296.13 µS/cm	0.01 mg/L		850.4 mV		
6/29/2023 4:33 PM	40:26	7.49 pH	11.39 °C	296.18 µS/cm	0.00 mg/L		879.0 mV		
6/29/2023 4:33 PM	40:56	7.49 pH	11.43 °C	296.31 µS/cm	0.00 mg/L		855.9 mV		
6/29/2023 4:34 PM	41:26	7.49 pH	11.48 °C	296.51 µS/cm	0.00 mg/L		853.8 mV		
6/29/2023 4:34 PM	41:56	7.49 pH	11.56 °C	296.33 µS/cm	0.00 mg/L		873.7 mV		
6/29/2023 4:35 PM	42:26	7.49 pH	11.57 °C	296.24 µS/cm	0.00 mg/L		869.5 mV		
6/29/2023 4:35 PM	42:56	7.49 pH	11.55 °C	296.00 µS/cm	0.00 mg/L		857.9 mV		
6/29/2023 4:36 PM	43:26	7.49 pH	11.52 °C	295.96 µS/cm	0.00 mg/L		851.9 mV		
6/29/2023 4:36 PM	43:56	7.49 pH	11.52 °C	296.22 µS/cm	0.00 mg/L		853.6 mV		
6/29/2023 4:37 PM	44:26	7.49 pH	11.52 °C	296.10 µS/cm	0.00 mg/L		872.8 mV		
6/29/2023 4:37 PM	44:56	7.49 pH	11.52 °C	296.11 µS/cm	0.00 mg/L		864.3 mV		
6/29/2023 4:38 PM	45:26	7.49 pH	11.49 °C	296.12 µS/cm	0.00 mg/L		874.3 mV		
6/29/2023 4:38 PM	45:56	7.49 pH	11.47 °C	295.94 µS/cm	0.00 mg/L		849.6 mV		
6/29/2023 4:39 PM	46:26	7.49 pH	11.47 °C	295.96 µS/cm	0.00 mg/L		848.3 mV		
6/29/2023 4:39 PM	46:56	7.49 pH	11.48 °C	296.09 µS/cm	0.00 mg/L		878.6 mV		
6/29/2023 4:40 PM	47:26	7.49 pH	11.48 °C	296.17 µS/cm	0.00 mg/L		843.9 mV		
6/29/2023 4:40 PM	47:56	7.49 pH	11.48 °C	296.17 µS/cm	0.00 mg/L		873.4 mV		
6/29/2023 4:41 PM	48:26	7.49 pH	11.47 °C	295.69 µS/cm	0.00 mg/L		847.2 mV		
6/29/2023 4:41 PM	48:56	7.49 pH	11.43 °C	295.53 µS/cm	0.00 mg/L		845.1 mV		
6/29/2023 4:42 PM	49:26	7.50 pH	11.40 °C	295.61 µS/cm	0.00 mg/L		867.1 mV		
6/29/2023 4:42 PM	49:56	7.49 pH	11.46 °C	296.01 µS/cm	0.00 mg/L		844.6 mV		
6/29/2023 4:43 PM	50:26	7.49 pH	11.53 °C	296.53 µS/cm	0.01 mg/L		865.4 mV		
6/29/2023 4:43 PM	50:56	7.49 pH	11.62 °C	296.64 µS/cm	0.01 mg/L		841.0 mV		
6/29/2023 4:44 PM	51:26	7.49 pH	11.69 °C	296.75 µS/cm	0.01 mg/L		781.4 mV		
6/29/2023 4:44 PM	51:56	7.49 pH	11.78 °C	296.91 µS/cm	0.02 mg/L		863.3 mV		
6/29/2023 4:45 PM	52:26	7.48 pH	11.89 °C	297.16 µS/cm	0.02 mg/L		837.6 mV		
6/29/2023 4:45 PM	52:56	7.48 pH	11.99 °C	297.33 µS/cm	0.03 mg/L		840.8 mV		

6/29/2023 4:46 PM	53:26	7.48 pH	12.08 °C	297.32 µS/cm	0.03 mg/L		861.8 mV		
6/29/2023 4:46 PM	53:56	7.48 pH	12.19 °C	297.33 µS/cm	0.03 mg/L		841.9 mV		
6/29/2023 4:47 PM	54:26	7.48 pH	12.30 °C	297.29 µS/cm	0.03 mg/L		861.3 mV		
6/29/2023 4:47 PM	54:56	7.48 pH	12.40 °C	297.14 µS/cm	0.03 mg/L		840.0 mV		
6/29/2023 4:48 PM	55:26	7.48 pH	12.49 °C	297.06 µS/cm	0.03 mg/L		840.5 mV		
6/29/2023 4:48 PM	55:56	7.48 pH	12.51 °C	296.73 µS/cm	0.03 mg/L		857.5 mV		
6/29/2023 4:49 PM	56:26	7.48 pH	12.53 °C	296.19 µS/cm	0.03 mg/L		838.9 mV		
6/29/2023 4:49 PM	56:56	7.48 pH	12.55 °C	296.04 µS/cm	0.03 mg/L		858.5 mV		
6/29/2023 4:50 PM	57:26	7.48 pH	12.58 °C	295.91 µS/cm	0.03 mg/L		849.8 mV		
6/29/2023 4:50 PM	57:56	7.48 pH	12.62 °C	296.11 µS/cm	0.03 mg/L		827.1 mV		
6/29/2023 4:51 PM	58:26	7.48 pH	12.58 °C	296.16 µS/cm	0.03 mg/L		859.6 mV		
6/29/2023 4:51 PM	58:56	7.48 pH	12.58 °C	296.37 µS/cm	0.03 mg/L		837.1 mV		
6/29/2023 4:52 PM	59:26	7.48 pH	12.63 °C	296.57 µS/cm	0.03 mg/L		856.2 mV		
6/29/2023 4:52 PM	59:56	7.48 pH	12.59 °C	296.65 µS/cm	0.03 mg/L		834.9 mV		
6/29/2023 4:53 PM	01:00:26	7.48 pH	12.58 °C	296.20 µS/cm	0.04 mg/L		833.4 mV		
6/29/2023 4:53 PM	01:00:56	7.48 pH	12.55 °C	296.44 µS/cm	0.04 mg/L		872.7 mV		
6/29/2023 4:54 PM	01:01:26	7.48 pH	12.54 °C	296.87 µS/cm	0.05 mg/L		835.0 mV		
6/29/2023 4:56 PM	01:03:54	7.99 pH	12.10 °C	3.61 µS/cm	1.49 mg/L		615.6 mV		

Samples

Sample ID:	Description:
EW1	

Low-Flow Test Report:

Test Date / Time: 29/06/2023 11:49:53
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH232 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 7 m** **Top of Screen: 1 m** **Total Depth: 6.83 m** **Initial Depth to Water: 5.28 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 12000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
29/06/2023 11:49	00:00	6.94 pH	19.12 °C	470.97 µS/cm	3.29 mg/L		-38.4 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:50	00:30	6.88 pH	16.06 °C	476.69 µS/cm	0.98 mg/L		-45.0 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:50	01:00	6.88 pH	14.73 °C	483.63 µS/cm	0.37 mg/L		-46.0 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:51	01:30	6.88 pH	13.85 °C	490.14 µS/cm	0.22 mg/L		-45.9 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:51	02:00	6.86 pH	13.45 °C	494.04 µS/cm	0.17 mg/L		-44.3 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:52	02:30	6.86 pH	13.29 °C	497.47 µS/cm	0.15 mg/L		-44.1 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:52	03:00	6.86 pH	13.08 °C	497.90 µS/cm	0.14 mg/L		-44.1 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:53	03:30	6.86 pH	12.96 °C	498.47 µS/cm	0.13 mg/L		-43.4 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:53	04:00	6.86 pH	12.95 °C	498.72 µS/cm	0.13 mg/L		-43.5 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:54	04:30	6.85 pH	12.99 °C	498.46 µS/cm	0.12 mg/L		-43.2 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:54	05:00	6.85 pH	13.03 °C	497.16 µS/cm	0.12 mg/L		-42.9 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:55	05:30	6.85 pH	13.03 °C	497.52 µS/cm	0.11 mg/L		-42.7 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:55	06:00	6.85 pH	13.01 °C	499.30 µS/cm	0.11 mg/L		-43.1 mV	528.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Low-Flow Test Report:

Test Date / Time: 29/06/2023 09:31:57
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH237 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 22.8 m** **Top of Screen: 2 m** **Total Depth: 25.37 m** **Initial Depth to Water: 12.67 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 16000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
29/06/2023 09:31	00:00	6.65 pH	15.57 °C	525.37 µS/cm	2.28 mg/L		4.0 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:32	00:30	6.61 pH	14.75 °C	534.94 µS/cm	0.91 mg/L		1.1 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:32	01:00	6.59 pH	13.49 °C	551.94 µS/cm	0.34 mg/L		1.0 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:33	01:30	6.57 pH	12.85 °C	557.81 µS/cm	0.23 mg/L		0.8 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:33	02:00	6.56 pH	12.40 °C	564.14 µS/cm	0.18 mg/L		0.5 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:34	02:30	6.55 pH	12.22 °C	565.61 µS/cm	0.16 mg/L		0.5 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:34	03:00	6.55 pH	12.08 °C	566.44 µS/cm	0.15 mg/L		0.4 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:35	03:30	6.55 pH	12.00 °C	566.72 µS/cm	0.14 mg/L		0.2 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:35	04:00	6.54 pH	11.96 °C	566.45 µS/cm	0.14 mg/L		0.1 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:36	04:30	6.54 pH	11.93 °C	566.34 µS/cm	0.14 mg/L		-0.7 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:36	05:00	6.54 pH	11.93 °C	566.44 µS/cm	0.14 mg/L		-0.2 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:37	05:30	6.54 pH	11.91 °C	566.59 µS/cm	0.15 mg/L		-0.2 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:37	06:00	6.55 pH	11.84 °C	566.74 µS/cm	0.16 mg/L		-0.8 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:38	06:30	6.55 pH	11.77 °C	566.53 µS/cm	0.17 mg/L		-0.3 mV	1,267.0 cm	2,000.0 ml/min

29/06/2023 09:38	07:00	6.55 pH	11.70 °C	567.28 µS/cm	0.19 mg/L		0.1 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:39	07:30	6.55 pH	11.65 °C	566.64 µS/cm	0.20 mg/L		0.3 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:39	08:00	6.55 pH	11.61 °C	563.74 µS/cm	0.22 mg/L		0.4 mV	1,267.0 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/27/2023 10:10:46 AM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH239.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 2.6 m** **Top of Screen: 1 m** **Total Depth: 3.6 m** **Initial Depth to Water: 1.89 m**	**Pump Type: Wasp pump** **Estimated Total Volume Pumped: 16000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/27/2023 10:10 AM	00:00	7.94 pH	15.24 °C	732.74 µS/cm	8.41 mg/L		388.8 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:11 AM	00:30	7.86 pH	15.25 °C	727.22 µS/cm	1.49 mg/L		628.8 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:11 AM	01:00	7.81 pH	15.35 °C	724.58 µS/cm	0.49 mg/L		709.6 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:12 AM	01:30	7.78 pH	15.44 °C	726.33 µS/cm	0.29 mg/L		742.4 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:12 AM	02:00	7.75 pH	15.53 °C	723.06 µS/cm	0.24 mg/L		755.4 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:13 AM	02:30	7.73 pH	15.62 °C	727.38 µS/cm	0.23 mg/L		760.0 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:13 AM	03:00	7.71 pH	15.69 °C	732.11 µS/cm	0.21 mg/L		761.5 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:14 AM	03:30	7.70 pH	15.75 °C	731.90 µS/cm	0.18 mg/L		763.6 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:14 AM	04:00	7.70 pH	15.81 °C	731.74 µS/cm	0.17 mg/L		768.9 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:15 AM	04:30	7.69 pH	15.85 °C	731.64 µS/cm	0.16 mg/L		769.5 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:15 AM	05:00	7.69 pH	15.89 °C	731.34 µS/cm	0.15 mg/L		769.4 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:16 AM	05:30	7.68 pH	15.93 °C	731.12 µS/cm	0.14 mg/L		769.5 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:16 AM	06:00	7.68 pH	15.95 °C	730.75 µS/cm	0.13 mg/L		773.9 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:17 AM	06:30	7.68 pH	15.98 °C	730.83 µS/cm	0.13 mg/L		762.4 mV	189.00 cm	2,000.0 ml/min

6/27/2023 10:17 AM	07:00	7.68 pH	16.00 °C	730.71 µS/cm	0.12 mg/L		758.3 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:18 AM	07:30	7.68 pH	16.02 °C	730.48 µS/cm	0.12 mg/L		757.8 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:18 AM	08:00	7.68 pH	16.02 °C	730.39 µS/cm	0.11 mg/L		757.4 mV	189.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW12	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/27/2023 9:47:28 AM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH239.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 3 m** **Top of Screen: 7 m** **Total Depth: 7.6 m** **Initial Depth to Water: 2.2 m**	**Pump Type: Wasp pump** **Estimated Total Volume Pumped: 18000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/27/2023 9:47 AM	00:00	7.26 pH	13.08 °C	734.36 µS/cm	7.34 mg/L		402.7 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:47 AM	00:30	7.33 pH	13.33 °C	745.02 µS/cm	0.99 mg/L		675.1 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:48 AM	01:00	7.39 pH	13.69 °C	744.10 µS/cm	0.20 mg/L		787.6 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:48 AM	01:30	7.44 pH	14.04 °C	741.74 µS/cm	0.10 mg/L		841.5 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:49 AM	02:00	7.47 pH	14.30 °C	740.59 µS/cm	0.07 mg/L		847.7 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:49 AM	02:30	7.50 pH	14.49 °C	740.14 µS/cm	0.05 mg/L		856.6 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:50 AM	03:00	7.52 pH	14.66 °C	739.54 µS/cm	0.05 mg/L		862.4 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:50 AM	03:30	7.54 pH	14.78 °C	739.66 µS/cm	0.04 mg/L		868.2 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:51 AM	04:00	7.55 pH	14.89 °C	739.36 µS/cm	0.03 mg/L		860.9 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:51 AM	04:30	7.57 pH	14.98 °C	739.55 µS/cm	0.03 mg/L		854.7 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:52 AM	05:00	7.58 pH	15.04 °C	740.14 µS/cm	0.03 mg/L		856.7 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:52 AM	05:30	7.58 pH	15.11 °C	739.51 µS/cm	0.02 mg/L		847.0 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:53 AM	06:00	7.59 pH	15.15 °C	739.74 µS/cm	0.02 mg/L		842.3 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:53 AM	06:30	7.60 pH	15.21 °C	739.47 µS/cm	0.02 mg/L		835.7 mV	220.00 cm	2,000.0 ml/min

6/27/2023 9:54 AM	07:00	7.60 pH	15.23 °C	739.68 µS/cm	0.02 mg/L		831.4 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:54 AM	07:30	7.61 pH	15.26 °C	739.77 µS/cm	0.02 mg/L		826.1 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:55 AM	08:00	7.61 pH	15.30 °C	739.52 µS/cm	0.02 mg/L		821.8 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:55 AM	08:30	7.62 pH	15.31 °C	739.83 µS/cm	0.01 mg/L		819.9 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:56 AM	09:00	7.61 pH	15.34 °C	739.53 µS/cm	0.01 mg/L		813.7 mV	220.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW11	

Low-Flow Test Report:

Test Date / Time: 6/27/2023 10:41:25 AM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH240 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 5 m** **Top of Screen: 1 m** **Total Depth: 5.16 m** **Initial Depth to Water: 2.01 m**	**Pump Type: Wasp pump** **Estimated Total Volume Pumped: 25000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/27/2023 10:41 AM	00:00	8.13 pH	15.58 °C	658.47 µS/cm	3.39 mg/L		381.4 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:41 AM	00:30	8.18 pH	15.32 °C	650.86 µS/cm	0.64 mg/L		606.5 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:42 AM	01:00	8.21 pH	14.85 °C	648.15 µS/cm	0.17 mg/L		673.0 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:42 AM	01:30	8.23 pH	14.41 °C	648.09 µS/cm	0.10 mg/L		701.9 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:43 AM	02:00	8.25 pH	14.04 °C	647.94 µS/cm	0.07 mg/L		708.7 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:43 AM	02:30	8.26 pH	13.77 °C	648.18 µS/cm	0.06 mg/L		706.1 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:44 AM	03:00	8.28 pH	13.53 °C	648.41 µS/cm	0.04 mg/L		707.2 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:44 AM	03:30	8.29 pH	13.31 °C	648.04 µS/cm	0.04 mg/L		702.3 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:45 AM	04:00	8.30 pH	13.14 °C	647.65 µS/cm	0.03 mg/L		697.8 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:45 AM	04:30	8.32 pH	12.99 °C	642.06 µS/cm	0.03 mg/L		687.4 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:46 AM	05:00	8.33 pH	12.88 °C	640.96 µS/cm	0.02 mg/L		679.2 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:46 AM	05:30	8.34 pH	12.77 °C	640.37 µS/cm	0.02 mg/L		672.9 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:47 AM	06:00	8.35 pH	12.68 °C	640.48 µS/cm	0.02 mg/L		667.6 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:47 AM	06:30	8.36 pH	12.61 °C	639.75 µS/cm	0.01 mg/L		660.1 mV	201.00 cm	2,000.0 ml/min

6/27/2023 10:48 AM	07:00	8.36 pH	12.55 °C	639.61 µS/cm	0.01 mg/L		656.1 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:48 AM	07:30	8.37 pH	12.50 °C	638.76 µS/cm	0.01 mg/L		650.6 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:49 AM	08:00	8.38 pH	12.48 °C	638.55 µS/cm	0.01 mg/L		644.9 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:49 AM	08:30	8.38 pH	12.44 °C	637.86 µS/cm	0.01 mg/L		640.1 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:50 AM	09:00	8.39 pH	12.42 °C	637.42 µS/cm	0.01 mg/L		631.0 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:50 AM	09:30	8.40 pH	12.40 °C	636.92 µS/cm	0.00 mg/L		625.7 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:51 AM	10:00	8.40 pH	12.39 °C	636.17 µS/cm	0.00 mg/L		620.6 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:51 AM	10:30	8.41 pH	12.35 °C	636.17 µS/cm	0.00 mg/L		615.1 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:52 AM	11:00	8.41 pH	12.34 °C	635.90 µS/cm	0.00 mg/L		610.5 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:52 AM	11:30	8.42 pH	12.33 °C	635.72 µS/cm	0.00 mg/L		607.2 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:53 AM	12:00	8.42 pH	12.33 °C	635.14 µS/cm	0.00 mg/L		604.7 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:53 AM	12:30	8.43 pH	12.32 °C	634.63 µS/cm	0.00 mg/L		599.4 mV	201.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW11	

Low-Flow Test Report:

Test Date / Time: 6/27/2023 11:05:41 AM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH242 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 2.7 m** **Top of Screen: 1 m** **Total Depth: 3.74 m** **Initial Depth to Water: 2.07 m**	**Pump Type: Wasp pump** **Estimated Total Volume Pumped: 8000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:
Borehole purged dry. Sample taken from bucket

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/27/2023 11:05 AM	00:00	8.27 pH	13.36 °C	690.53 µS/cm	7.69 mg/L		300.6 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:06 AM	00:30	8.20 pH	13.35 °C	664.11 µS/cm	1.27 mg/L		488.2 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:06 AM	01:00	8.15 pH	13.27 °C	669.47 µS/cm	0.24 mg/L		539.7 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:07 AM	01:30	8.12 pH	13.31 °C	678.96 µS/cm	0.11 mg/L		561.2 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:07 AM	02:00	8.10 pH	13.45 °C	687.30 µS/cm	0.10 mg/L		569.1 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:08 AM	02:30	8.08 pH	13.59 °C	686.65 µS/cm	0.10 mg/L		575.2 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:08 AM	03:00	9.61 pH	13.77 °C	851.22 µS/cm	0.30 mg/L		606.4 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:09 AM	03:30	9.72 pH	13.95 °C	70.30 µS/cm	3.36 mg/L		605.7 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:09 AM	04:00	8.06 pH	14.08 °C	682.36 µS/cm	6.39 mg/L		576.0 mV	207.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:

EW15	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/27/2023 8:51:19 AM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH243.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 1 m** **Top of Screen: 5 m** **Total Depth: 5.88 m** **Initial Depth to Water: 3.66 m**	**Pump Type: Wasp pump** **Estimated Total Volume Pumped: 15533.333 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/27/2023 8:51 AM	00:00	8.14 pH	17.22 °C	500.60 µS/cm	6.94 mg/L		505.8 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:51 AM	00:30	8.13 pH	15.93 °C	581.47 µS/cm	2.32 mg/L		610.6 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:52 AM	01:00	8.12 pH	14.90 °C	611.52 µS/cm	0.90 mg/L		618.9 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:52 AM	01:30	8.10 pH	13.99 °C	596.46 µS/cm	0.59 mg/L		627.0 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:53 AM	02:00	8.08 pH	13.39 °C	592.75 µS/cm	0.49 mg/L		626.9 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:53 AM	02:30	8.05 pH	12.93 °C	601.13 µS/cm	0.46 mg/L		623.7 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:54 AM	03:00	8.02 pH	12.61 °C	612.82 µS/cm	0.41 mg/L		620.2 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:54 AM	03:30	7.98 pH	12.27 °C	630.77 µS/cm	0.35 mg/L		614.2 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:55 AM	04:00	7.95 pH	12.05 °C	634.33 µS/cm	0.22 mg/L		610.4 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:55 AM	04:30	7.93 pH	11.78 °C	613.86 µS/cm	0.11 mg/L		606.4 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:56 AM	05:00	7.89 pH	11.52 °C	614.16 µS/cm	0.07 mg/L		600.3 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:56 AM	05:30	7.86 pH	11.35 °C	606.58 µS/cm	0.05 mg/L		594.5 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:57 AM	06:00	7.83 pH	11.22 °C	598.04 µS/cm	0.03 mg/L		589.5 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:57 AM	06:30	7.80 pH	11.13 °C	590.04 µS/cm	0.03 mg/L		586.8 mV	366.00 cm	2,000.0 ml/min

6/27/2023 8:58 AM	07:00	7.76 pH	11.06 °C	581.74 µS/cm	0.02 mg/L		583.7 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:58 AM	07:30	7.73 pH	11.04 °C	574.44 µS/cm	0.02 mg/L		578.9 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:59 AM	07:46	7.71 pH	11.04 °C	574.11 µS/cm	0.02 mg/L		557.2 mV	366.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
Ew13	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/26/2023 2:40:52 PM
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH244.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 5.5 m** **Top of Screen: 4.5 m** **Total Depth: 9.3 m** **Initial Depth to Water: 3.39 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 51000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/26/2023 2:40 PM	00:00	7.19 pH	18.17 °C	626.84 µS/cm	3.20 mg/L		710.7 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:41 PM	00:30	6.95 pH	16.83 °C	646.00 µS/cm	1.08 mg/L		576.9 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:41 PM	01:00	6.74 pH	15.51 °C	663.11 µS/cm	0.61 mg/L		511.3 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:42 PM	01:30	6.59 pH	14.45 °C	676.17 µS/cm	0.50 mg/L		470.4 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:42 PM	02:00	6.46 pH	13.84 °C	681.78 µS/cm	0.45 mg/L		435.6 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:43 PM	02:30	6.36 pH	13.45 °C	687.34 µS/cm	0.42 mg/L		414.4 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:43 PM	03:00	6.28 pH	13.18 °C	691.93 µS/cm	0.38 mg/L		385.0 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:44 PM	03:30	6.23 pH	13.00 °C	694.63 µS/cm	0.35 mg/L		368.1 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:44 PM	04:00	6.18 pH	12.83 °C	693.21 µS/cm	0.33 mg/L		344.2 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:45 PM	04:30	6.15 pH	12.67 °C	691.16 µS/cm	0.32 mg/L		331.4 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:45 PM	05:00	6.13 pH	12.49 °C	689.65 µS/cm	0.30 mg/L		322.2 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:46 PM	05:30	6.12 pH	12.35 °C	690.64 µS/cm	0.27 mg/L		304.4 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:46 PM	06:00	6.12 pH	12.21 °C	691.25 µS/cm	0.26 mg/L		293.3 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:47 PM	06:30	6.11 pH	12.12 °C	692.60 µS/cm	0.25 mg/L		286.1 mV	339.00 cm	2,000.0 ml/min

6/26/2023 2:47 PM	07:00	6.11 pH	12.04 °C	694.33 µS/cm	0.26 mg/L		275.3 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:48 PM	07:30	6.10 pH	12.01 °C	695.96 µS/cm	0.28 mg/L		270.5 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:48 PM	08:00	6.10 pH	12.03 °C	698.40 µS/cm	0.30 mg/L		276.5 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:49 PM	08:30	6.09 pH	12.02 °C	700.13 µS/cm	0.32 mg/L		264.2 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:49 PM	09:00	6.08 pH	12.01 °C	699.81 µS/cm	0.31 mg/L		269.2 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:50 PM	09:30	6.08 pH	11.97 °C	699.97 µS/cm	0.29 mg/L		307.3 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:50 PM	10:00	6.09 pH	11.94 °C	699.87 µS/cm	0.28 mg/L		286.2 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:51 PM	10:30	6.07 pH	11.91 °C	701.35 µS/cm	0.28 mg/L		318.7 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:51 PM	11:00	6.06 pH	11.90 °C	702.38 µS/cm	0.28 mg/L		289.1 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:52 PM	11:30	6.05 pH	11.96 °C	705.58 µS/cm	0.30 mg/L		272.8 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:52 PM	12:00	6.04 pH	12.03 °C	707.34 µS/cm	0.32 mg/L		264.8 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:53 PM	12:30	6.04 pH	12.11 °C	708.13 µS/cm	0.33 mg/L		256.0 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:53 PM	13:00	6.04 pH	12.15 °C	708.81 µS/cm	0.35 mg/L		249.0 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:54 PM	13:30	6.03 pH	12.21 °C	710.17 µS/cm	0.35 mg/L		248.0 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:54 PM	14:00	6.03 pH	12.21 °C	709.44 µS/cm	0.35 mg/L		234.9 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:55 PM	14:30	6.03 pH	12.21 °C	709.30 µS/cm	0.35 mg/L		225.6 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:55 PM	15:00	6.02 pH	12.17 °C	709.08 µS/cm	0.35 mg/L		223.1 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:56 PM	15:30	6.02 pH	12.15 °C	708.87 µS/cm	0.35 mg/L		219.5 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:56 PM	16:00	6.02 pH	12.12 °C	708.75 µS/cm	0.37 mg/L		221.1 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:57 PM	16:30	6.02 pH	12.07 °C	708.32 µS/cm	0.37 mg/L		259.3 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:57 PM	17:00	6.01 pH	12.03 °C	709.15 µS/cm	0.37 mg/L		208.7 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:58 PM	17:30	6.00 pH	12.01 °C	711.47 µS/cm	0.38 mg/L		202.6 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:58 PM	18:00	6.00 pH	11.99 °C	710.90 µS/cm	0.37 mg/L		197.4 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:59 PM	18:30	5.99 pH	11.98 °C	710.81 µS/cm	0.37 mg/L		196.2 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:59 PM	19:00	5.98 pH	11.96 °C	710.97 µS/cm	0.37 mg/L		202.4 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:00 PM	19:30	5.99 pH	11.94 °C	712.25 µS/cm	0.37 mg/L		191.5 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:00 PM	20:00	5.98 pH	11.96 °C	713.62 µS/cm	0.36 mg/L		188.0 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:01 PM	20:30	5.97 pH	11.96 °C	712.89 µS/cm	0.36 mg/L		204.5 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:01 PM	21:00	5.97 pH	11.96 °C	711.11 µS/cm	0.35 mg/L		377.8 mV	339.00 cm	2,000.0 ml/min

6/26/2023 3:02 PM	21:30	5.96 pH	11.95 °C	712.47 µS/cm	0.35 mg/L		218.1 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:02 PM	22:00	5.95 pH	11.94 °C	712.77 µS/cm	0.34 mg/L		201.4 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:03 PM	22:30	5.94 pH	11.91 °C	713.26 µS/cm	0.35 mg/L		193.5 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:03 PM	23:00	5.94 pH	11.91 °C	713.37 µS/cm	0.35 mg/L		190.0 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:04 PM	23:30	5.93 pH	11.89 °C	714.02 µS/cm	0.34 mg/L		184.8 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:04 PM	24:00	5.93 pH	11.89 °C	714.36 µS/cm	0.34 mg/L		180.0 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:05 PM	24:30	5.92 pH	11.86 °C	714.64 µS/cm	0.35 mg/L		175.8 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:05 PM	25:00	5.92 pH	11.85 °C	714.16 µS/cm	0.36 mg/L		173.6 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:06 PM	25:30	5.92 pH	11.85 °C	713.97 µS/cm	0.36 mg/L		171.2 mV	339.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
Ew14	

Low-Flow Test Report:

Test Date / Time: 6/26/2023 1:12:52 PM
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH246.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 4.5 m** **Top of Screen: 3.5 m** **Total Depth: 7.87 m** **Initial Depth to Water: 3.45 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 108000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/26/2023 1:12 PM	00:00	8.51 pH	20.61 °C	572.58 µS/cm	4.97 mg/L		1,049.3 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:13 PM	00:30	8.84 pH	17.73 °C	600.16 µS/cm	2.13 mg/L		1,049.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:13 PM	01:00	8.84 pH	15.84 °C	592.46 µS/cm	1.40 mg/L		1,042.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:14 PM	01:30	8.91 pH	14.67 °C	603.14 µS/cm	1.18 mg/L		1,028.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:14 PM	02:00	8.98 pH	13.86 °C	610.55 µS/cm	1.15 mg/L		1,009.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:15 PM	02:30	7.48 pH	13.27 °C	615.60 µS/cm	1.14 mg/L		1,076.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:15 PM	03:00	7.42 pH	12.90 °C	617.96 µS/cm	1.13 mg/L		1,068.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:16 PM	03:30	7.37 pH	12.68 °C	619.65 µS/cm	1.12 mg/L		1,071.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:16 PM	04:00	7.32 pH	12.55 °C	620.02 µS/cm	1.15 mg/L		1,065.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:17 PM	04:30	7.15 pH	12.46 °C	619.79 µS/cm	1.15 mg/L		1,058.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:17 PM	05:00	7.18 pH	12.42 °C	619.21 µS/cm	1.15 mg/L		1,037.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:18 PM	05:30	7.14 pH	12.36 °C	619.18 µS/cm	1.14 mg/L		1,011.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:18 PM	06:00	6.99 pH	12.35 °C	618.45 µS/cm	1.14 mg/L		999.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:19 PM	06:30	7.02 pH	12.31 °C	618.74 µS/cm	1.14 mg/L		981.0 mV	345.00 cm	2,000.0 ml/min

6/26/2023 1:19 PM	07:00	6.99 pH	12.29 °C	618.53 µS/cm	1.14 mg/L		977.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:20 PM	07:30	6.98 pH	12.27 °C	619.17 µS/cm	1.13 mg/L		975.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:20 PM	08:00	6.95 pH	12.26 °C	620.62 µS/cm	1.13 mg/L		962.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:21 PM	08:30	6.93 pH	12.25 °C	621.02 µS/cm	1.12 mg/L		965.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:21 PM	09:00	6.92 pH	12.21 °C	621.10 µS/cm	1.12 mg/L		973.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:22 PM	09:30	6.93 pH	12.19 °C	621.24 µS/cm	1.13 mg/L		981.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:22 PM	10:00	6.97 pH	12.17 °C	621.95 µS/cm	1.13 mg/L		978.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:23 PM	10:30	6.98 pH	12.13 °C	623.00 µS/cm	1.13 mg/L		960.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:23 PM	11:00	6.98 pH	12.12 °C	622.64 µS/cm	1.13 mg/L		966.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:24 PM	11:30	6.98 pH	12.08 °C	623.90 µS/cm	1.12 mg/L		938.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:24 PM	12:00	6.97 pH	12.07 °C	624.14 µS/cm	1.12 mg/L		938.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:25 PM	12:30	6.95 pH	12.07 °C	624.38 µS/cm	1.12 mg/L		862.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:25 PM	13:00	6.93 pH	12.05 °C	625.13 µS/cm	1.12 mg/L		819.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:26 PM	13:30	6.91 pH	12.05 °C	625.98 µS/cm	1.12 mg/L		839.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:26 PM	14:00	6.89 pH	12.04 °C	626.38 µS/cm	1.12 mg/L		796.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:27 PM	14:30	6.88 pH	12.07 °C	625.83 µS/cm	1.12 mg/L		809.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:27 PM	15:00	6.86 pH	12.08 °C	625.96 µS/cm	1.13 mg/L		803.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:28 PM	15:30	6.84 pH	12.10 °C	627.42 µS/cm	1.13 mg/L		770.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:28 PM	16:00	6.82 pH	12.12 °C	625.09 µS/cm	1.13 mg/L		782.3 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:29 PM	16:30	6.80 pH	12.15 °C	628.02 µS/cm	1.13 mg/L		771.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:29 PM	17:00	6.78 pH	12.17 °C	628.07 µS/cm	1.14 mg/L		781.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:30 PM	17:30	6.74 pH	12.21 °C	627.89 µS/cm	1.14 mg/L		695.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:30 PM	18:00	6.72 pH	12.21 °C	627.88 µS/cm	1.14 mg/L		681.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:31 PM	18:30	6.72 pH	12.21 °C	627.74 µS/cm	1.14 mg/L		674.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:31 PM	19:00	6.71 pH	12.21 °C	627.17 µS/cm	1.14 mg/L		671.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:32 PM	19:30	6.70 pH	12.14 °C	626.42 µS/cm	1.14 mg/L		670.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:32 PM	20:00	6.69 pH	12.04 °C	626.35 µS/cm	1.14 mg/L		684.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:33 PM	20:30	6.69 pH	11.98 °C	626.23 µS/cm	1.14 mg/L		716.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:33 PM	21:00	6.68 pH	11.93 °C	626.01 µS/cm	1.14 mg/L		710.4 mV	345.00 cm	2,000.0 ml/min

6/26/2023 1:34 PM	21:30	6.66 pH	11.87 °C	626.27 µS/cm	1.15 mg/L		685.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:34 PM	22:00	6.64 pH	11.84 °C	626.10 µS/cm	1.15 mg/L		713.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:35 PM	22:30	6.64 pH	11.80 °C	625.74 µS/cm	1.15 mg/L		697.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:35 PM	23:00	6.63 pH	11.76 °C	626.09 µS/cm	1.16 mg/L		678.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:36 PM	23:30	6.62 pH	11.75 °C	626.86 µS/cm	1.16 mg/L		679.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:36 PM	24:00	6.61 pH	11.77 °C	627.29 µS/cm	1.16 mg/L		708.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:37 PM	24:30	6.61 pH	11.80 °C	627.50 µS/cm	1.17 mg/L		768.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:37 PM	25:00	6.59 pH	11.85 °C	627.70 µS/cm	1.17 mg/L		708.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:38 PM	25:30	6.59 pH	11.85 °C	626.49 µS/cm	1.17 mg/L		703.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:38 PM	26:00	6.58 pH	11.84 °C	625.46 µS/cm	1.17 mg/L		714.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:39 PM	26:30	6.58 pH	11.80 °C	625.04 µS/cm	1.17 mg/L		735.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:39 PM	27:00	6.59 pH	11.75 °C	624.31 µS/cm	1.17 mg/L		773.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:40 PM	27:30	6.58 pH	11.72 °C	624.15 µS/cm	1.17 mg/L		801.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:40 PM	28:00	6.57 pH	11.71 °C	623.26 µS/cm	1.17 mg/L		805.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:41 PM	28:30	6.57 pH	11.71 °C	622.92 µS/cm	1.18 mg/L		770.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:41 PM	29:00	6.57 pH	11.71 °C	622.40 µS/cm	1.18 mg/L		804.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:42 PM	29:30	6.57 pH	11.67 °C	622.06 µS/cm	1.18 mg/L		846.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:42 PM	30:00	6.58 pH	11.65 °C	621.60 µS/cm	1.18 mg/L		872.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:43 PM	30:30	6.57 pH	11.63 °C	621.27 µS/cm	1.18 mg/L		817.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:43 PM	31:00	6.55 pH	11.62 °C	621.39 µS/cm	1.18 mg/L		812.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:44 PM	31:30	6.57 pH	11.63 °C	621.00 µS/cm	1.19 mg/L		878.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:44 PM	32:00	6.57 pH	11.64 °C	620.45 µS/cm	1.19 mg/L		912.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:45 PM	32:30	6.58 pH	11.65 °C	619.86 µS/cm	1.19 mg/L		879.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:45 PM	33:00	6.59 pH	11.62 °C	618.99 µS/cm	1.19 mg/L		906.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:46 PM	33:30	6.58 pH	11.61 °C	618.87 µS/cm	1.19 mg/L		908.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:46 PM	34:00	6.59 pH	11.60 °C	618.20 µS/cm	1.19 mg/L		908.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:47 PM	34:30	6.57 pH	11.61 °C	618.15 µS/cm	1.20 mg/L		884.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:47 PM	35:00	6.56 pH	11.62 °C	618.30 µS/cm	1.19 mg/L		871.3 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:48 PM	35:30	6.54 pH	11.62 °C	617.22 µS/cm	1.19 mg/L		846.6 mV	345.00 cm	2,000.0 ml/min

6/26/2023 1:48 PM	36:00	6.53 pH	11.62 °C	617.10 µS/cm	1.19 mg/L		831.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:49 PM	36:30	6.54 pH	11.62 °C	616.77 µS/cm	1.19 mg/L		912.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:49 PM	37:00	6.52 pH	11.64 °C	616.33 µS/cm	1.19 mg/L		861.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:50 PM	37:30	6.50 pH	11.66 °C	616.17 µS/cm	1.19 mg/L		802.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:50 PM	38:00	6.42 pH	11.67 °C	615.01 µS/cm	1.19 mg/L		891.3 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:51 PM	38:30	6.42 pH	11.67 °C	614.85 µS/cm	1.18 mg/L		823.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:51 PM	39:00	6.42 pH	11.69 °C	614.96 µS/cm	1.19 mg/L		755.3 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:52 PM	39:30	6.41 pH	11.70 °C	614.90 µS/cm	1.18 mg/L		709.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:52 PM	40:00	6.40 pH	11.75 °C	614.94 µS/cm	1.18 mg/L		671.3 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:53 PM	40:30	6.36 pH	11.78 °C	614.56 µS/cm	1.18 mg/L		562.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:53 PM	41:00	6.33 pH	11.82 °C	614.32 µS/cm	1.18 mg/L		613.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:54 PM	41:30	6.33 pH	11.80 °C	613.20 µS/cm	1.18 mg/L		597.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:54 PM	42:00	6.33 pH	11.78 °C	612.55 µS/cm	1.18 mg/L		570.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:55 PM	42:30	6.32 pH	11.75 °C	611.88 µS/cm	1.17 mg/L		549.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:55 PM	43:00	6.31 pH	11.75 °C	611.91 µS/cm	1.17 mg/L		523.3 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:56 PM	43:30	6.30 pH	11.75 °C	611.73 µS/cm	1.17 mg/L		503.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:56 PM	44:00	6.29 pH	11.74 °C	610.49 µS/cm	1.17 mg/L		486.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:57 PM	44:30	6.28 pH	11.71 °C	610.93 µS/cm	1.17 mg/L		471.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:57 PM	45:00	6.27 pH	11.68 °C	610.00 µS/cm	1.17 mg/L		449.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:58 PM	45:30	6.27 pH	11.66 °C	609.51 µS/cm	1.16 mg/L		439.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:58 PM	46:00	6.26 pH	11.64 °C	609.05 µS/cm	1.16 mg/L		418.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:59 PM	46:30	6.25 pH	11.61 °C	608.35 µS/cm	1.16 mg/L		405.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:59 PM	47:00	6.24 pH	11.58 °C	608.08 µS/cm	1.16 mg/L		394.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:00 PM	47:30	6.23 pH	11.57 °C	607.69 µS/cm	1.16 mg/L		383.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:00 PM	48:00	6.22 pH	11.59 °C	607.18 µS/cm	1.16 mg/L		373.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:01 PM	48:30	6.21 pH	11.60 °C	606.77 µS/cm	1.16 mg/L		365.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:01 PM	49:00	6.20 pH	11.62 °C	605.42 µS/cm	1.15 mg/L		364.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:02 PM	49:30	6.19 pH	11.59 °C	604.87 µS/cm	1.15 mg/L		340.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:02 PM	50:00	6.18 pH	11.57 °C	605.87 µS/cm	1.15 mg/L		328.9 mV	345.00 cm	2,000.0 ml/min

6/26/2023 2:03 PM	50:30	6.17 pH	11.57 °C	606.24 µS/cm	1.15 mg/L		319.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:03 PM	51:00	6.16 pH	11.57 °C	605.13 µS/cm	1.14 mg/L		311.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:04 PM	51:30	6.16 pH	11.57 °C	604.75 µS/cm	1.15 mg/L		307.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:04 PM	52:00	6.14 pH	11.59 °C	604.75 µS/cm	1.15 mg/L		340.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:05 PM	52:30	6.15 pH	11.66 °C	604.87 µS/cm	1.14 mg/L		349.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:05 PM	53:00	6.15 pH	11.71 °C	605.53 µS/cm	1.14 mg/L		341.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:06 PM	53:30	6.14 pH	11.80 °C	606.22 µS/cm	1.14 mg/L		342.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:06 PM	54:00	6.15 pH	11.90 °C	606.52 µS/cm	1.14 mg/L		337.0 mV	345.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
Ew11	

Low-Flow Test Report:

Test Date / Time: 6/28/2023 10:23:49 AM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH248.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 3 m** **Top of Screen: 6.5 m** **Total Depth: 9.01 m** **Initial Depth to Water: 6.3 m**	**Pump Type: Wasp pump** **Estimated Total Volume Pumped: 18000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/28/2023 10:23 AM	00:00	8.89 pH	17.77 °C	8.78 µS/cm	9.20 mg/L		699.1 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:24 AM	00:30	8.28 pH	17.72 °C	870.21 µS/cm	8.82 mg/L		799.4 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:24 AM	01:00	8.10 pH	15.72 °C	896.27 µS/cm	2.99 mg/L		862.1 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:25 AM	01:30	7.99 pH	14.63 °C	900.27 µS/cm	0.78 mg/L		878.4 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:25 AM	02:00	7.93 pH	13.85 °C	902.18 µS/cm	0.27 mg/L		886.2 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:26 AM	02:30	7.89 pH	13.27 °C	916.86 µS/cm	0.20 mg/L		886.9 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:26 AM	03:00	7.85 pH	12.90 °C	915.85 µS/cm	0.17 mg/L		885.2 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:27 AM	03:30	7.83 pH	12.60 °C	923.87 µS/cm	0.17 mg/L		887.1 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:27 AM	04:00	7.81 pH	12.44 °C	947.35 µS/cm	0.18 mg/L		886.7 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:28 AM	04:30	7.79 pH	12.26 °C	967.43 µS/cm	0.19 mg/L		885.5 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:28 AM	05:00	7.78 pH	12.12 °C	981.52 µS/cm	0.21 mg/L		886.3 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:29 AM	05:30	7.77 pH	12.05 °C	984.66 µS/cm	0.21 mg/L		887.4 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:29 AM	06:00	7.76 pH	11.99 °C	985.81 µS/cm	0.21 mg/L		885.3 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:30 AM	06:30	7.75 pH	11.96 °C	991.52 µS/cm	0.21 mg/L		894.1 mV	630.00 cm	2,000.0 ml/min

6/28/2023 10:30 AM	07:00	7.74 pH	11.94 °C	991.99 µS/cm	0.23 mg/L		885.6 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:31 AM	07:30	7.73 pH	11.91 °C	993.72 µS/cm	0.25 mg/L		884.5 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:31 AM	08:00	7.73 pH	11.89 °C	994.82 µS/cm	0.28 mg/L		886.4 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:32 AM	08:30	7.73 pH	11.88 °C	995.76 µS/cm	0.32 mg/L		885.0 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:32 AM	09:00	7.72 pH	11.86 °C	995.45 µS/cm	0.32 mg/L		884.0 mV	630.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/27/2023 9:18:05 AM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH249.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 4.5 m** **Top of Screen: 3.5 m** **Total Depth: 7.65 m** **Initial Depth to Water: 4.85 m**	**Pump Type: Wasp pump** **Estimated Total Volume Pumped: 17000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/27/2023 9:18 AM	00:00	7.97 pH	13.36 °C	929.98 µS/cm	6.53 mg/L		455.0 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:18 AM	00:30	7.80 pH	13.03 °C	739.67 µS/cm	2.35 mg/L		559.1 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:19 AM	01:00	7.68 pH	12.86 °C	742.61 µS/cm	1.11 mg/L		561.6 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:19 AM	01:30	7.59 pH	12.72 °C	743.11 µS/cm	0.47 mg/L		575.3 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:20 AM	02:00	7.52 pH	12.63 °C	743.93 µS/cm	0.30 mg/L		573.8 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:20 AM	02:30	7.47 pH	12.58 °C	745.81 µS/cm	0.26 mg/L		560.6 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:21 AM	03:00	7.42 pH	12.53 °C	745.71 µS/cm	0.23 mg/L		557.6 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:21 AM	03:30	7.39 pH	12.49 °C	746.44 µS/cm	0.17 mg/L		548.5 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:22 AM	04:00	7.36 pH	12.46 °C	746.82 µS/cm	0.15 mg/L		541.0 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:22 AM	04:30	7.34 pH	12.44 °C	747.02 µS/cm	0.13 mg/L		534.8 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:23 AM	05:00	7.32 pH	12.40 °C	746.98 µS/cm	0.11 mg/L		529.0 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:23 AM	05:30	7.31 pH	12.26 °C	749.67 µS/cm	0.09 mg/L		524.4 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:24 AM	06:00	7.30 pH	12.25 °C	748.48 µS/cm	0.08 mg/L		521.5 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:24 AM	06:30	7.29 pH	12.12 °C	768.21 µS/cm	0.06 mg/L		518.4 mV	485.00 cm	2,000.0 ml/min

6/27/2023 9:25 AM	07:00	7.28 pH	11.99 °C	779.70 µS/cm	0.05 mg/L		516.9 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:25 AM	07:30	7.28 pH	11.99 °C	777.67 µS/cm	0.05 mg/L		511.7 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:26 AM	08:00	7.28 pH	11.96 °C	778.69 µS/cm	0.03 mg/L		507.3 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:26 AM	08:30	7.28 pH	11.94 °C	777.57 µS/cm	0.04 mg/L		503.6 mV	485.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
Ew14	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 28/06/2023 10:40:45
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH250.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 9.5 m** **Top of Screen: 7.5 m** **Total Depth: 9.07 m** **Initial Depth to Water: 3.53 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 20000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
28/06/2023 10:40	00:00	7.60 pH	16.21 °C	489.48 µS/cm	4.96 mg/L		32.0 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:41	00:30	7.59 pH	14.67 °C	503.53 µS/cm	3.91 mg/L		21.4 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:41	01:00	7.58 pH	13.99 °C	510.49 µS/cm	3.56 mg/L		17.2 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:42	01:30	7.56 pH	13.58 °C	511.83 µS/cm	3.37 mg/L		15.5 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:42	02:00	7.55 pH	13.35 °C	513.02 µS/cm	3.25 mg/L		13.8 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:43	02:30	7.55 pH	13.26 °C	515.60 µS/cm	3.22 mg/L		13.2 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:43	03:00	7.55 pH	13.26 °C	518.07 µS/cm	3.22 mg/L		13.1 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:44	03:30	7.55 pH	13.30 °C	519.99 µS/cm	3.23 mg/L		12.8 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:44	04:00	7.55 pH	13.31 °C	522.29 µS/cm	3.27 mg/L		12.9 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:45	04:30	7.56 pH	13.31 °C	524.13 µS/cm	3.35 mg/L		13.0 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:45	05:00	7.56 pH	13.32 °C	524.25 µS/cm	3.39 mg/L		13.1 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:46	05:30	7.56 pH	13.35 °C	525.48 µS/cm	3.40 mg/L		13.2 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:46	06:00	7.56 pH	13.37 °C	516.65 µS/cm	3.37 mg/L		20.4 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:47	06:30	7.55 pH	13.40 °C	516.66 µS/cm	3.32 mg/L		15.7 mV	353.00 cm	2,000.0 ml/min

28/06/2023 10:47	07:00	7.55 pH	13.42 °C	523.65 µS/cm	3.24 mg/L		14.4 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:48	07:30	7.54 pH	13.42 °C	522.66 µS/cm	3.14 mg/L		13.6 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:48	08:00	7.54 pH	13.40 °C	513.37 µS/cm	3.06 mg/L		20.6 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:49	08:30	7.54 pH	13.37 °C	513.19 µS/cm	2.98 mg/L		15.3 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:49	09:00	7.53 pH	13.34 °C	520.02 µS/cm	2.90 mg/L		13.9 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:50	09:30	7.53 pH	13.35 °C	519.65 µS/cm	2.84 mg/L		13.2 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:50	10:00	7.52 pH	13.33 °C	511.13 µS/cm	2.79 mg/L		12.9 mV	353.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 27/06/2023 14:33:00
Project: GCRE 2 (2)
Operator Name: JP

Location Name: S2-BH252.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 3 m** **Top of Screen: 6 m** **Total Depth: 8.63 m** **Initial Depth to Water: 5.41 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 14000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
27/06/2023 14:33	00:00	7.64 pH	14.03 °C	515.00 µS/cm	8.97 mg/L		32.8 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:33	00:30	7.32 pH	13.21 °C	496.57 µS/cm	6.86 mg/L		30.6 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:34	01:00	7.23 pH	12.56 °C	493.06 µS/cm	2.83 mg/L		22.2 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:34	01:30	7.18 pH	12.34 °C	494.10 µS/cm	1.42 mg/L		18.2 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:35	02:00	7.18 pH	12.02 °C	491.63 µS/cm	0.91 mg/L		15.6 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:35	02:30	7.17 pH	11.75 °C	487.07 µS/cm	0.72 mg/L		14.0 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:36	03:00	7.13 pH	11.61 °C	474.80 µS/cm	0.62 mg/L		13.8 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:36	03:30	7.10 pH	11.56 °C	465.13 µS/cm	0.57 mg/L		13.3 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:37	04:00	7.09 pH	11.55 °C	462.30 µS/cm	0.56 mg/L		13.1 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:37	04:30	7.10 pH	11.47 °C	468.56 µS/cm	0.56 mg/L		12.4 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:38	05:00	7.11 pH	11.43 °C	475.10 µS/cm	0.52 mg/L		11.9 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:38	05:30	7.12 pH	11.39 °C	475.41 µS/cm	0.47 mg/L		11.5 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:39	06:00	7.11 pH	11.33 °C	472.88 µS/cm	0.44 mg/L		11.3 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:39	06:30	7.11 pH	11.26 °C	470.75 µS/cm	0.42 mg/L		10.9 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:40	07:00	7.10 pH	11.21 °C	467.33 µS/cm	0.41 mg/L		11.0 mV	541.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
Ew18	

Low-Flow Test Report:

Test Date / Time: 27/07/2023 10:52:57
Project: GCRE 2
Operator Name: JP

Location Name: S1-BH118 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 7 m** **Top of Screen: 8 m** **Total Depth: 14.97 m** **Initial Depth to Water: 6.93 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 25000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
27/07/2023 10:52	00:00	7.21 pH	15.96 °C	390.29 µS/cm	5.63 mg/L		-39.4 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:53	00:30	7.13 pH	14.74 °C	452.31 µS/cm	2.34 mg/L		-40.9 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:53	01:00	7.09 pH	13.68 °C	434.84 µS/cm	0.97 mg/L		-39.0 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:54	01:30	7.07 pH	13.11 °C	437.08 µS/cm	0.49 mg/L		-38.3 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:54	02:00	7.06 pH	12.71 °C	436.15 µS/cm	0.35 mg/L		-37.7 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:55	02:30	7.05 pH	12.43 °C	432.07 µS/cm	0.33 mg/L		-36.8 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:55	03:00	7.03 pH	12.24 °C	423.57 µS/cm	0.31 mg/L		-35.8 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:56	03:30	7.03 pH	12.12 °C	425.23 µS/cm	0.30 mg/L		-49.7 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:56	04:00	7.02 pH	12.07 °C	425.80 µS/cm	0.31 mg/L		-37.3 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:57	04:30	7.02 pH	12.02 °C	426.66 µS/cm	0.32 mg/L		-50.4 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:57	05:00	7.02 pH	12.02 °C	424.50 µS/cm	0.34 mg/L		-52.1 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:58	05:30	7.02 pH	12.03 °C	418.98 µS/cm	0.40 mg/L		-38.7 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:58	06:00	7.01 pH	11.90 °C	409.31 µS/cm	0.54 mg/L		-34.3 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:59	06:30	7.01 pH	11.82 °C	408.87 µS/cm	0.62 mg/L		-32.3 mV	693.00 cm	2,000.0 ml/min

27/07/2023 10:59	07:00	7.01 pH	11.75 °C	411.16 µS/cm	0.59 mg/L		-45.1 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:00	07:30	7.00 pH	11.68 °C	411.53 µS/cm	0.47 mg/L		-33.5 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:00	08:00	6.99 pH	11.64 °C	404.49 µS/cm	0.37 mg/L		-31.7 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:01	08:30	6.98 pH	11.58 °C	395.24 µS/cm	0.30 mg/L		-30.2 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:01	09:00	6.96 pH	11.56 °C	384.85 µS/cm	0.26 mg/L		-28.8 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:02	09:30	6.94 pH	11.52 °C	375.67 µS/cm	0.23 mg/L		-27.5 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:02	10:00	6.93 pH	11.52 °C	367.62 µS/cm	0.22 mg/L		-37.8 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:03	10:30	6.91 pH	11.51 °C	359.87 µS/cm	0.21 mg/L		-27.2 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:03	11:00	6.90 pH	11.52 °C	355.23 µS/cm	0.22 mg/L		-25.2 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:04	11:30	6.89 pH	11.56 °C	351.63 µS/cm	0.23 mg/L		-26.6 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:04	12:00	6.89 pH	11.57 °C	348.39 µS/cm	0.23 mg/L		-25.7 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:05	12:30	6.88 pH	11.61 °C	345.37 µS/cm	0.22 mg/L		-24.9 mV	693.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 7/27/2023 10:52:15 AM
Project: GCRE 2
Operator Name: KW

Location Name: S1-BH119.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 7 m** **Top of Screen: 8 m** **Total Depth: 15 m** **Initial Depth to Water: 7.97 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 18000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/27/2023 10:52 AM	00:00	8.12 pH	14.58 °C	397.71 µS/cm	1.04 mg/L		375.3 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:52 AM	00:30	8.04 pH	13.86 °C	402.79 µS/cm	0.30 mg/L		577.3 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:53 AM	01:00	7.98 pH	13.32 °C	408.37 µS/cm	0.18 mg/L		681.8 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:53 AM	01:30	7.93 pH	12.91 °C	410.43 µS/cm	0.14 mg/L		771.7 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:54 AM	02:00	7.89 pH	12.71 °C	409.68 µS/cm	0.12 mg/L		829.5 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:54 AM	02:30	7.86 pH	12.51 °C	407.79 µS/cm	0.11 mg/L		858.6 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:55 AM	03:00	7.83 pH	12.40 °C	404.10 µS/cm	0.10 mg/L		877.8 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:55 AM	03:30	7.81 pH	12.31 °C	398.98 µS/cm	0.09 mg/L		894.2 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:56 AM	04:00	7.78 pH	12.28 °C	394.41 µS/cm	0.08 mg/L		893.9 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:56 AM	04:30	7.77 pH	12.24 °C	390.72 µS/cm	0.08 mg/L		898.4 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:57 AM	05:00	7.75 pH	12.21 °C	388.45 µS/cm	0.07 mg/L		902.9 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:57 AM	05:30	7.74 pH	12.21 °C	387.02 µS/cm	0.07 mg/L		903.6 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:58 AM	06:00	7.73 pH	12.19 °C	386.05 µS/cm	0.06 mg/L		904.5 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:58 AM	06:30	7.72 pH	12.17 °C	385.37 µS/cm	0.06 mg/L		905.7 mV	797.00 cm	2,000.0 ml/min

7/27/2023 10:59 AM	07:00	7.71 pH	12.14 °C	384.93 µS/cm	0.05 mg/L		906.2 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:59 AM	07:30	7.70 pH	12.14 °C	384.78 µS/cm	0.05 mg/L		905.8 mV	797.00 cm	2,000.0 ml/min
7/27/2023 11:00 AM	08:00	7.69 pH	12.17 °C	385.33 µS/cm	0.05 mg/L		907.6 mV	797.00 cm	2,000.0 ml/min
7/27/2023 11:00 AM	08:30	7.69 pH	12.20 °C	386.02 µS/cm	0.05 mg/L		908.1 mV	797.00 cm	2,000.0 ml/min
7/27/2023 11:01 AM	09:00	7.68 pH	12.21 °C	386.09 µS/cm	0.04 mg/L		908.4 mV	797.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW3	

Low-Flow Test Report:

Test Date / Time: 7/27/2023 11:20:03 AM
Project: GCRE 2
Operator Name: KW

Location Name: S1-BH119.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 2 m** **Top of Screen: 2 m** **Total Depth: 4 m** **Initial Depth to Water: 2.67 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 18000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/27/2023 11:20 AM	00:00	7.56 pH	16.47 °C	705.99 µS/cm	1.65 mg/L		292.6 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:20 AM	00:30	7.35 pH	15.75 °C	708.15 µS/cm	0.36 mg/L		583.2 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:21 AM	01:00	7.22 pH	15.22 °C	700.72 µS/cm	0.15 mg/L		748.8 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:21 AM	01:30	7.16 pH	14.82 °C	683.30 µS/cm	0.10 mg/L		856.2 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:22 AM	02:00	7.14 pH	14.54 °C	672.45 µS/cm	0.06 mg/L		897.7 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:22 AM	02:30	7.12 pH	14.33 °C	665.16 µS/cm	0.05 mg/L		912.4 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:23 AM	03:00	7.12 pH	14.20 °C	659.41 µS/cm	0.04 mg/L		922.1 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:23 AM	03:30	7.11 pH	14.11 °C	663.00 µS/cm	0.03 mg/L		926.1 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:24 AM	04:00	7.10 pH	14.04 °C	662.70 µS/cm	0.02 mg/L		926.7 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:24 AM	04:30	7.10 pH	13.99 °C	659.51 µS/cm	0.02 mg/L		928.1 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:25 AM	05:00	7.10 pH	13.95 °C	655.67 µS/cm	0.01 mg/L		927.2 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:25 AM	05:30	7.11 pH	13.91 °C	648.05 µS/cm	0.01 mg/L		929.4 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:26 AM	06:00	7.11 pH	13.93 °C	645.66 µS/cm	0.01 mg/L		928.7 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:26 AM	06:30	7.11 pH	13.95 °C	647.42 µS/cm	0.01 mg/L		929.6 mV	267.00 cm	2,000.0 ml/min

7/27/2023 11:27 AM	07:00	7.11 pH	13.97 °C	648.78 µS/cm	0.01 mg/L		929.3 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:27 AM	07:30	7.11 pH	14.01 °C	643.40 µS/cm	0.01 mg/L		927.2 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:28 AM	08:00	7.12 pH	14.04 °C	639.17 µS/cm	0.01 mg/L		927.4 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:28 AM	08:30	7.12 pH	14.06 °C	634.67 µS/cm	0.01 mg/L		927.2 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:29 AM	09:00	7.13 pH	14.07 °C	631.69 µS/cm	0.00 mg/L		927.3 mV	267.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW4	

Low-Flow Test Report:

Test Date / Time: 7/27/2023 2:21:19 PM
Project: GCRE 2
Operator Name: KW

Location Name: S1-BH120 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 8 m** **Top of Screen: 12 m** **Total Depth: 20.54 m** **Initial Depth to Water: 9.1 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 120200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Windy cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/27/2023 2:21 PM	00:00	8.08 pH	15.35 °C	297.37 µS/cm	0.32 mg/L		339.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:21 PM	00:36	8.02 pH	13.96 °C	302.85 µS/cm	0.14 mg/L		565.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:22 PM	01:06	7.98 pH	13.22 °C	305.57 µS/cm	0.12 mg/L		707.9 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:22 PM	01:36	7.94 pH	12.77 °C	306.46 µS/cm	0.11 mg/L		830.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:23 PM	02:06	7.90 pH	12.50 °C	306.96 µS/cm	0.11 mg/L		888.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:23 PM	02:36	7.87 pH	12.35 °C	307.20 µS/cm	0.11 mg/L		903.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:24 PM	03:06	7.84 pH	12.24 °C	307.57 µS/cm	0.11 mg/L		945.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:24 PM	03:36	7.81 pH	12.17 °C	307.21 µS/cm	0.11 mg/L		959.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:25 PM	04:06	7.79 pH	12.12 °C	305.55 µS/cm	0.11 mg/L		977.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:25 PM	04:36	7.75 pH	12.08 °C	302.61 µS/cm	0.12 mg/L		988.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:26 PM	05:06	7.75 pH	12.04 °C	301.90 µS/cm	0.13 mg/L		979.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:26 PM	05:36	7.74 pH	12.03 °C	301.29 µS/cm	0.17 mg/L		943.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:27 PM	06:06	7.73 pH	12.04 °C	301.16 µS/cm	0.22 mg/L		940.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:27 PM	06:36	7.71 pH	12.07 °C	301.09 µS/cm	0.26 mg/L		938.7 mV	910.00 cm	2,000.0 ml/min

7/27/2023 2:28 PM	07:06	7.70 pH	12.08 °C	301.47 µS/cm	0.28 mg/L		958.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:28 PM	07:36	7.68 pH	12.09 °C	301.93 µS/cm	0.27 mg/L		937.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:29 PM	08:06	7.67 pH	12.17 °C	303.48 µS/cm	0.25 mg/L		961.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:29 PM	08:36	7.65 pH	12.31 °C	304.50 µS/cm	0.22 mg/L		935.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:30 PM	09:06	7.64 pH	12.40 °C	305.07 µS/cm	0.20 mg/L		933.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:30 PM	09:36	7.63 pH	12.49 °C	305.59 µS/cm	0.18 mg/L		957.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:31 PM	10:06	7.63 pH	12.52 °C	305.42 µS/cm	0.16 mg/L		948.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:31 PM	10:36	7.62 pH	12.48 °C	305.05 µS/cm	0.14 mg/L		958.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:32 PM	11:06	7.62 pH	12.44 °C	305.39 µS/cm	0.12 mg/L		944.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:32 PM	11:36	7.61 pH	12.43 °C	306.07 µS/cm	0.11 mg/L		921.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:33 PM	12:06	7.61 pH	12.43 °C	306.13 µS/cm	0.10 mg/L		953.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:33 PM	12:36	7.60 pH	12.40 °C	306.13 µS/cm	0.09 mg/L		930.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:34 PM	13:06	7.60 pH	12.39 °C	306.56 µS/cm	0.09 mg/L		950.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:34 PM	13:36	7.60 pH	12.37 °C	306.70 µS/cm	0.08 mg/L		927.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:35 PM	14:06	7.59 pH	12.36 °C	306.66 µS/cm	0.07 mg/L		928.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:35 PM	14:36	7.59 pH	12.34 °C	306.96 µS/cm	0.07 mg/L		956.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:36 PM	15:06	7.59 pH	12.35 °C	307.54 µS/cm	0.06 mg/L		921.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:36 PM	15:36	7.59 pH	12.34 °C	307.44 µS/cm	0.05 mg/L		947.9 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:37 PM	16:06	7.59 pH	12.31 °C	307.81 µS/cm	0.05 mg/L		926.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:37 PM	16:36	7.58 pH	12.32 °C	307.99 µS/cm	0.05 mg/L		942.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:38 PM	17:06	7.58 pH	12.33 °C	307.94 µS/cm	0.04 mg/L		926.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:38 PM	17:36	7.58 pH	12.31 °C	307.75 µS/cm	0.04 mg/L		921.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:39 PM	18:06	7.58 pH	12.31 °C	307.80 µS/cm	0.03 mg/L		945.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:39 PM	18:36	7.58 pH	12.31 °C	307.53 µS/cm	0.03 mg/L		922.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:40 PM	19:06	7.58 pH	12.30 °C	307.42 µS/cm	0.02 mg/L		921.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:40 PM	19:36	7.58 pH	12.30 °C	307.61 µS/cm	0.02 mg/L		942.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:41 PM	20:06	7.57 pH	12.31 °C	307.67 µS/cm	0.02 mg/L		920.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:41 PM	20:36	7.57 pH	12.31 °C	307.68 µS/cm	0.02 mg/L		942.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:42 PM	21:06	7.57 pH	12.34 °C	307.42 µS/cm	0.02 mg/L		959.3 mV	910.00 cm	2,000.0 ml/min

7/27/2023 2:42 PM	21:36	7.57 pH	12.32 °C	307.37 µS/cm	0.02 mg/L		979.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:43 PM	22:06	7.57 pH	12.31 °C	307.26 µS/cm	0.02 mg/L		978.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:43 PM	22:36	7.57 pH	12.32 °C	307.37 µS/cm	0.02 mg/L		918.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:44 PM	23:06	7.57 pH	12.33 °C	307.38 µS/cm	0.02 mg/L		914.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:44 PM	23:36	7.57 pH	12.34 °C	307.16 µS/cm	0.02 mg/L		898.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:45 PM	24:06	7.57 pH	12.32 °C	307.04 µS/cm	0.02 mg/L		975.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:45 PM	24:36	7.57 pH	12.31 °C	307.07 µS/cm	0.02 mg/L		942.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:46 PM	25:06	7.56 pH	12.32 °C	307.15 µS/cm	0.02 mg/L		926.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:46 PM	25:36	7.56 pH	12.35 °C	307.52 µS/cm	0.02 mg/L		902.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:47 PM	26:06	7.56 pH	12.39 °C	307.15 µS/cm	0.02 mg/L		934.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:47 PM	26:36	7.56 pH	12.40 °C	307.15 µS/cm	0.02 mg/L		910.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:48 PM	27:06	7.56 pH	12.42 °C	307.32 µS/cm	0.02 mg/L		939.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:48 PM	27:36	7.56 pH	12.43 °C	307.13 µS/cm	0.02 mg/L		914.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:49 PM	28:06	7.56 pH	12.43 °C	307.17 µS/cm	0.01 mg/L		912.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:49 PM	28:36	7.56 pH	12.43 °C	307.01 µS/cm	0.01 mg/L		935.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:50 PM	29:06	7.56 pH	12.40 °C	307.09 µS/cm	0.01 mg/L		909.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:50 PM	29:36	7.56 pH	12.40 °C	307.22 µS/cm	0.01 mg/L		933.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:51 PM	30:06	7.56 pH	12.40 °C	307.01 µS/cm	0.01 mg/L		908.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:51 PM	30:36	7.56 pH	12.38 °C	306.78 µS/cm	0.01 mg/L		908.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:52 PM	31:06	7.56 pH	12.33 °C	306.80 µS/cm	0.01 mg/L		931.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:52 PM	31:36	7.56 pH	12.31 °C	306.50 µS/cm	0.01 mg/L		907.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:53 PM	32:06	7.56 pH	12.28 °C	306.88 µS/cm	0.01 mg/L		928.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:53 PM	32:36	7.56 pH	12.28 °C	306.99 µS/cm	0.01 mg/L		904.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:54 PM	33:06	7.55 pH	12.29 °C	307.04 µS/cm	0.00 mg/L		904.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:54 PM	33:36	7.55 pH	12.31 °C	307.13 µS/cm	0.01 mg/L		929.9 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:55 PM	34:06	7.55 pH	12.31 °C	307.13 µS/cm	0.00 mg/L		903.9 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:55 PM	34:36	7.55 pH	12.31 °C	307.09 µS/cm	0.00 mg/L		928.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:56 PM	35:06	7.55 pH	12.31 °C	306.94 µS/cm	0.00 mg/L		903.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:56 PM	35:36	7.55 pH	12.31 °C	307.11 µS/cm	0.00 mg/L		900.2 mV	910.00 cm	2,000.0 ml/min

7/27/2023 2:57 PM	36:06	7.55 pH	12.33 °C	307.12 µS/cm	0.00 mg/L		928.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:57 PM	36:36	7.55 pH	12.35 °C	307.08 µS/cm	0.00 mg/L		901.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:58 PM	37:06	7.55 pH	12.35 °C	307.21 µS/cm	0.00 mg/L		924.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:58 PM	37:36	7.55 pH	12.34 °C	306.89 µS/cm	0.00 mg/L		899.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:59 PM	38:06	7.55 pH	12.34 °C	306.89 µS/cm	0.00 mg/L		899.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:59 PM	38:36	7.55 pH	12.33 °C	306.95 µS/cm	0.00 mg/L		924.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:00 PM	39:06	7.55 pH	12.34 °C	307.03 µS/cm	0.00 mg/L		898.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:00 PM	39:36	7.55 pH	12.35 °C	307.02 µS/cm	0.00 mg/L		920.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:01 PM	40:06	7.55 pH	12.36 °C	307.06 µS/cm	0.00 mg/L		899.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:01 PM	40:36	7.55 pH	12.37 °C	306.92 µS/cm	0.00 mg/L		896.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:02 PM	41:06	7.55 pH	12.38 °C	306.78 µS/cm	0.00 mg/L		923.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:02 PM	41:36	7.55 pH	12.35 °C	306.66 µS/cm	0.00 mg/L		896.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:03 PM	42:06	7.55 pH	12.34 °C	306.72 µS/cm	0.00 mg/L		895.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:03 PM	42:36	7.55 pH	12.32 °C	306.60 µS/cm	0.00 mg/L		921.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:04 PM	43:06	7.55 pH	12.31 °C	306.67 µS/cm	0.00 mg/L		914.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:04 PM	43:36	7.55 pH	12.30 °C	306.73 µS/cm	0.00 mg/L		903.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:05 PM	44:06	7.55 pH	12.27 °C	306.80 µS/cm	0.00 mg/L		899.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:05 PM	44:36	7.55 pH	12.26 °C	306.77 µS/cm	0.00 mg/L		891.9 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:06 PM	45:06	7.55 pH	12.26 °C	306.90 µS/cm	0.00 mg/L		925.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:06 PM	45:36	7.54 pH	12.29 °C	306.93 µS/cm	0.00 mg/L		893.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:07 PM	46:06	7.54 pH	12.31 °C	307.00 µS/cm	0.00 mg/L		914.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:07 PM	46:36	7.54 pH	12.32 °C	307.18 µS/cm	0.00 mg/L		894.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:08 PM	47:06	7.54 pH	12.31 °C	306.83 µS/cm	0.00 mg/L		891.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:08 PM	47:36	7.54 pH	12.32 °C	307.03 µS/cm	0.00 mg/L		915.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:09 PM	48:06	7.54 pH	12.32 °C	306.87 µS/cm	0.00 mg/L		890.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:09 PM	48:36	7.54 pH	12.32 °C	306.88 µS/cm	0.00 mg/L		916.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:10 PM	49:06	7.54 pH	12.32 °C	306.93 µS/cm	0.00 mg/L		890.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:10 PM	49:36	7.54 pH	12.33 °C	306.79 µS/cm	0.00 mg/L		889.9 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:11 PM	50:06	7.54 pH	12.34 °C	306.84 µS/cm	0.00 mg/L		916.3 mV	910.00 cm	2,000.0 ml/min

7/27/2023 3:11 PM	50:36	7.54 pH	12.31 °C	306.60 µS/cm	0.00 mg/L		906.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:12 PM	51:06	7.54 pH	12.30 °C	306.48 µS/cm	0.00 mg/L		897.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:12 PM	51:36	7.54 pH	12.30 °C	306.71 µS/cm	0.00 mg/L		899.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:13 PM	52:06	7.54 pH	12.28 °C	306.67 µS/cm	0.00 mg/L		881.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:13 PM	52:36	7.54 pH	12.29 °C	306.76 µS/cm	0.00 mg/L		912.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:14 PM	53:06	7.54 pH	12.26 °C	306.64 µS/cm	0.00 mg/L		904.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:14 PM	53:36	7.54 pH	12.23 °C	306.69 µS/cm	0.00 mg/L		899.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:15 PM	54:06	7.54 pH	12.21 °C	306.75 µS/cm	0.00 mg/L		889.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:15 PM	54:36	7.54 pH	12.22 °C	307.00 µS/cm	0.00 mg/L		889.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:16 PM	55:06	7.54 pH	12.23 °C	307.06 µS/cm	-0.01 mg/L		913.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:16 PM	55:36	7.54 pH	12.23 °C	307.02 µS/cm	-0.01 mg/L		901.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:17 PM	56:06	7.54 pH	12.23 °C	306.87 µS/cm	-0.01 mg/L		875.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:17 PM	56:36	7.54 pH	12.21 °C	306.86 µS/cm	-0.01 mg/L		910.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:18 PM	57:06	7.54 pH	12.17 °C	306.69 µS/cm	-0.01 mg/L		887.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:18 PM	57:36	7.54 pH	12.17 °C	306.69 µS/cm	-0.01 mg/L		911.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:19 PM	58:06	7.54 pH	12.17 °C	306.81 µS/cm	-0.01 mg/L		888.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:19 PM	58:36	7.54 pH	12.17 °C	306.85 µS/cm	-0.01 mg/L		908.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:20 PM	59:06	7.54 pH	12.17 °C	307.00 µS/cm	-0.01 mg/L		885.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:20 PM	59:36	7.54 pH	12.18 °C	306.89 µS/cm	-0.01 mg/L		883.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:21 PM	01:00:06	7.54 pH	12.17 °C	306.85 µS/cm	-0.01 mg/L		867.7 mV	910.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 7/28/2023 10:50:09 AM
Project: GCRE 2
Operator Name: KE

Location Name: S2-BH217.1 **Well Diameter: 1.9 cm** **Total Depth: 29.96 m** **Initial Depth to Water: 17.06 m**	**Pump Type: Waterra pp1** **Estimated Total Volume Pumped: 8016.667 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 1000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Raining

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/28/2023 10:50 AM	00:00	8.32 pH	17.86 °C	319.08 µS/cm	6.76 mg/L		395.3 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:50 AM	00:30	8.63 pH	15.75 °C	583.53 µS/cm	3.21 mg/L		561.1 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:51 AM	01:00	8.48 pH	15.21 °C	585.44 µS/cm	1.15 mg/L		667.4 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:51 AM	01:30	8.45 pH	14.58 °C	601.70 µS/cm	0.64 mg/L		751.1 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:51 AM	01:39	8.44 pH	14.50 °C	606.15 µS/cm	0.59 mg/L		804.3 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:52 AM	02:09	8.41 pH	14.04 °C	637.15 µS/cm	0.58 mg/L		881.1 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:52 AM	02:39	8.35 pH	13.63 °C	568.38 µS/cm	0.29 mg/L		838.2 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:53 AM	03:09	8.31 pH	13.19 °C	553.43 µS/cm	0.18 mg/L		856.5 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:53 AM	03:39	8.33 pH	12.99 °C	595.13 µS/cm	0.16 mg/L		855.6 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:54 AM	04:09	8.29 pH	12.11 °C	523.27 µS/cm	0.13 mg/L		865.9 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:54 AM	04:45	8.23 pH	11.65 °C	509.11 µS/cm	0.12 mg/L		958.2 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:55 AM	05:01	8.21 pH	11.50 °C	492.40 µS/cm	0.11 mg/L		985.5 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:55 AM	05:31	8.17 pH	11.33 °C	484.07 µS/cm	0.11 mg/L		997.4 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:56 AM	06:01	8.15 pH	11.21 °C	480.30 µS/cm	0.11 mg/L		881.3 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:56 AM	06:31	8.12 pH	11.16 °C	478.79 µS/cm	0.11 mg/L		884.1 mV	1,706.0 cm	1,000.00 ml/min

7/28/2023 10:57 AM	07:01	8.10 pH	11.11 °C	477.41 µS/cm	0.11 mg/L		885.2 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:57 AM	07:31	8.08 pH	11.09 °C	475.74 µS/cm	0.12 mg/L		888.8 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:58 AM	08:01	8.06 pH	11.06 °C	478.37 µS/cm	0.13 mg/L		887.5 mV	1,706.0 cm	1,000.00 ml/min

Samples

Sample ID:	Description:
EW2	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 01/08/2023 14:37:43
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH222.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 10 m** **Top of Screen: 15 m** **Total Depth: 24.71 m** **Initial Depth to Water: 21.45 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 24000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Light showers

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
01/08/2023 14:37	00:00	7.01 pH	17.67 °C	389.81 µS/cm	3.59 mg/L		-25.4 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:38	00:30	7.20 pH	15.86 °C	474.11 µS/cm	1.78 mg/L		-22.8 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:38	01:00	7.23 pH	14.71 °C	475.58 µS/cm	0.99 mg/L		-18.5 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:39	01:30	7.24 pH	14.06 °C	472.95 µS/cm	0.65 mg/L		-15.6 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:39	02:00	7.23 pH	13.51 °C	469.70 µS/cm	0.51 mg/L		-13.3 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:40	02:30	7.23 pH	13.20 °C	462.48 µS/cm	0.44 mg/L		-11.7 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:40	03:00	7.22 pH	12.90 °C	455.01 µS/cm	0.39 mg/L		-9.9 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:41	03:30	7.22 pH	12.72 °C	441.26 µS/cm	0.35 mg/L		-8.0 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:41	04:00	7.20 pH	12.61 °C	429.94 µS/cm	0.30 mg/L		-6.2 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:42	04:30	7.19 pH	12.54 °C	424.43 µS/cm	0.27 mg/L		-5.1 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:42	05:00	7.18 pH	12.49 °C	419.09 µS/cm	0.25 mg/L		-3.7 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:43	05:30	7.18 pH	12.44 °C	409.72 µS/cm	0.23 mg/L		-2.6 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:43	06:00	7.17 pH	12.39 °C	403.73 µS/cm	0.21 mg/L		-1.9 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:44	06:30	7.16 pH	12.39 °C	399.28 µS/cm	0.21 mg/L		-1.3 mV	2,145.0 cm	2,000.0 ml/min

01/08/2023 14:44	07:00	7.15 pH	12.36 °C	391.87 µS/cm	0.19 mg/L		-0.6 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:45	07:30	7.15 pH	12.36 °C	387.34 µS/cm	0.19 mg/L		-0.3 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:45	08:00	7.14 pH	12.36 °C	381.68 µS/cm	0.18 mg/L		0.3 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:46	08:30	7.14 pH	12.36 °C	375.42 µS/cm	0.17 mg/L		-1.0 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:46	09:00	7.13 pH	12.35 °C	374.22 µS/cm	0.17 mg/L		0.8 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:47	09:30	7.12 pH	12.35 °C	371.03 µS/cm	0.16 mg/L		1.4 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:47	10:00	7.12 pH	12.36 °C	368.23 µS/cm	0.16 mg/L		1.5 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:48	10:30	7.12 pH	12.35 °C	365.91 µS/cm	0.16 mg/L		1.8 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:48	11:00	7.12 pH	12.33 °C	361.63 µS/cm	0.15 mg/L		2.4 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:49	11:30	7.11 pH	12.33 °C	359.73 µS/cm	0.15 mg/L		2.6 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:49	12:00	7.11 pH	12.33 °C	355.08 µS/cm	0.15 mg/L		2.7 mV	2,145.0 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Low-Flow Test Report:

Test Date / Time: 02/08/2023 13:57:28
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH225 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 3.9 m** **Top of Screen: 3 m** **Total Depth: 5.93 m** **Initial Depth to Water: 3.83 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 27000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
02/08/2023 13:57	00:00	7.82 pH	13.85 °C	438.65 µS/cm	3.23 mg/L		3.2 mV	383.00 cm	2,000.0 ml/min
02/08/2023 13:57	00:30	7.64 pH	13.01 °C	414.78 µS/cm	1.42 mg/L		-15.8 mV	383.00 cm	2,000.0 ml/min
02/08/2023 13:58	01:00	7.55 pH	12.40 °C	414.53 µS/cm	0.71 mg/L		-17.5 mV	383.00 cm	2,000.0 ml/min
02/08/2023 13:58	01:30	7.51 pH	12.07 °C	415.20 µS/cm	0.44 mg/L		-16.6 mV	383.00 cm	2,000.0 ml/min
02/08/2023 13:59	02:00	7.49 pH	11.90 °C	417.86 µS/cm	0.33 mg/L		-13.2 mV	383.00 cm	2,000.0 ml/min
02/08/2023 13:59	02:30	7.46 pH	11.80 °C	412.72 µS/cm	0.28 mg/L		-10.7 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:00	03:00	7.42 pH	11.76 °C	388.38 µS/cm	0.24 mg/L		-11.6 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:00	03:30	7.36 pH	11.71 °C	355.67 µS/cm	0.21 mg/L		-13.7 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:01	04:00	7.30 pH	11.68 °C	332.51 µS/cm	0.19 mg/L		-13.4 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:01	04:30	7.26 pH	11.66 °C	313.40 µS/cm	0.17 mg/L		-10.6 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:02	05:00	7.22 pH	11.66 °C	300.49 µS/cm	0.16 mg/L		-8.3 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:02	05:30	7.19 pH	11.66 °C	294.54 µS/cm	0.15 mg/L		-6.6 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:03	06:00	7.18 pH	11.66 °C	293.76 µS/cm	0.14 mg/L		-5.8 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:03	06:30	7.16 pH	11.68 °C	285.12 µS/cm	0.14 mg/L		-4.7 mV	383.00 cm	2,000.0 ml/min

02/08/2023 14:04	07:00	7.15 pH	11.71 °C	271.00 µS/cm	0.13 mg/L		-3.3 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:04	07:30	7.12 pH	11.75 °C	259.10 µS/cm	0.13 mg/L		-1.5 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:05	08:00	7.10 pH	11.77 °C	249.53 µS/cm	0.12 mg/L		-0.1 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:05	08:30	7.07 pH	11.80 °C	241.95 µS/cm	0.12 mg/L		1.3 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:06	09:00	7.05 pH	11.84 °C	235.94 µS/cm	0.12 mg/L		2.4 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:06	09:30	7.03 pH	11.91 °C	230.88 µS/cm	0.11 mg/L		3.5 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:07	10:00	7.02 pH	11.93 °C	226.02 µS/cm	0.11 mg/L		4.2 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:07	10:30	7.01 pH	11.95 °C	221.70 µS/cm	0.11 mg/L		5.1 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:08	11:00	6.99 pH	12.01 °C	217.89 µS/cm	0.10 mg/L		5.8 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:08	11:30	6.97 pH	12.03 °C	214.29 µS/cm	0.10 mg/L		6.4 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:09	12:00	6.97 pH	12.02 °C	211.03 µS/cm	0.10 mg/L		6.7 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:09	12:30	6.95 pH	12.03 °C	208.22 µS/cm	0.10 mg/L		7.5 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:10	13:00	6.95 pH	12.02 °C	205.44 µS/cm	0.09 mg/L		7.7 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:10	13:30	6.94 pH	12.02 °C	202.93 µS/cm	0.09 mg/L		7.8 mV	383.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 7/28/2023 12:13:40 PM
Project: GCRE 2 (4)
Operator Name: KW

Location Name: S2-BH227.1 **Well Diameter: 1.9 cm** **Total Depth: 5 m** **Initial Depth to Water: 3.1 m**	**Pump Type: Waterra pp1** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 1000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Raining

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/28/2023 12:13 PM	00:00	8.28 pH	15.17 °C	283.74 µS/cm	1.09 mg/L		308.9 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:14 PM	00:30	8.23 pH	14.28 °C	287.80 µS/cm	0.44 mg/L		600.7 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:14 PM	01:00	8.18 pH	13.72 °C	291.23 µS/cm	0.19 mg/L		729.5 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:15 PM	01:30	8.14 pH	13.41 °C	294.38 µS/cm	0.12 mg/L		810.0 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:15 PM	02:00	8.10 pH	13.22 °C	296.29 µS/cm	0.09 mg/L		863.6 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:16 PM	02:30	7.93 pH	13.11 °C	297.16 µS/cm	0.08 mg/L		861.6 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:16 PM	03:00	8.03 pH	13.03 °C	297.85 µS/cm	0.07 mg/L		874.0 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:17 PM	03:30	7.98 pH	12.98 °C	298.49 µS/cm	0.06 mg/L		898.9 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:17 PM	04:00	7.84 pH	12.97 °C	298.43 µS/cm	0.05 mg/L		881.5 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:18 PM	04:30	7.86 pH	12.95 °C	298.53 µS/cm	0.05 mg/L		903.4 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:18 PM	05:00	7.93 pH	12.95 °C	298.03 µS/cm	0.05 mg/L		908.2 mV	310.00 cm	1,000.00 ml/min

Samples

Sample ID:	Description:

EW1	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/26/2023 12:04:20 PM
Project: GCRE 2
Operator Name: KW

Location Name: S2-BH227.2 **Well Diameter: 5 cm** **Screen Length: 6 m** **Top of Screen: 8 m** **Total Depth: 14.5 m** **Initial Depth to Water: 10.67 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 19000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Raining

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/26/2023 12:04 PM	00:00	7.99 pH	14.76 °C	286.44 µS/cm	0.23 mg/L		373.6 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:04 PM	00:30	7.95 pH	13.96 °C	290.97 µS/cm	0.15 mg/L		746.6 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:05 PM	01:00	7.91 pH	13.45 °C	292.71 µS/cm	0.12 mg/L		849.4 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:05 PM	01:30	7.88 pH	13.06 °C	293.99 µS/cm	0.10 mg/L		877.6 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:06 PM	02:00	7.85 pH	12.77 °C	294.58 µS/cm	0.09 mg/L		891.8 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:06 PM	02:30	7.82 pH	12.58 °C	295.03 µS/cm	0.08 mg/L		897.9 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:07 PM	03:00	7.80 pH	12.44 °C	295.38 µS/cm	0.08 mg/L		901.1 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:07 PM	03:30	7.78 pH	12.35 °C	295.71 µS/cm	0.08 mg/L		903.2 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:08 PM	04:00	7.75 pH	12.31 °C	295.88 µS/cm	0.08 mg/L		905.1 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:08 PM	04:30	7.74 pH	12.27 °C	296.02 µS/cm	0.09 mg/L		904.4 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:09 PM	05:00	7.72 pH	12.26 °C	296.15 µS/cm	0.09 mg/L		905.1 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:09 PM	05:30	7.70 pH	12.24 °C	296.01 µS/cm	0.08 mg/L		908.4 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:10 PM	06:00	7.69 pH	12.21 °C	295.71 µS/cm	0.08 mg/L		908.1 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:10 PM	06:30	7.67 pH	12.21 °C	295.51 µS/cm	0.07 mg/L		907.0 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:11 PM	07:00	7.66 pH	12.21 °C	295.38 µS/cm	0.07 mg/L		907.0 mV	1,067.0 cm	2,000.0 ml/min

7/26/2023 12:11 PM	07:30	7.65 pH	12.21 °C	295.61 µS/cm	0.06 mg/L		906.5 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:12 PM	08:00	7.64 pH	12.21 °C	296.00 µS/cm	0.06 mg/L		907.7 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:12 PM	08:30	7.63 pH	12.23 °C	296.36 µS/cm	0.06 mg/L		907.7 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:13 PM	09:00	7.62 pH	12.24 °C	296.39 µS/cm	0.05 mg/L		906.5 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:13 PM	09:30	7.61 pH	12.26 °C	296.21 µS/cm	0.05 mg/L		907.6 mV	1,067.0 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 02/08/2023 12:44:01
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH229.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 6 m** **Top of Screen: 8 m** **Total Depth: 13.82 m** **Initial Depth to Water: 12.08 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 7433.333 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
02/08/2023 12:44	00:00	7.65 pH	13.76 °C	788.59 µS/cm	5.08 mg/L		31.5 mV	1,208.0 cm	2,000.0 ml/min
02/08/2023 12:44	00:30	7.61 pH	13.14 °C	780.13 µS/cm	3.47 mg/L		23.9 mV	1,208.0 cm	2,000.0 ml/min
02/08/2023 12:45	01:00	7.60 pH	12.80 °C	778.38 µS/cm	2.36 mg/L		20.3 mV	1,208.0 cm	2,000.0 ml/min
02/08/2023 12:45	01:30	7.58 pH	12.63 °C	780.07 µS/cm	1.94 mg/L		18.8 mV	1,208.0 cm	2,000.0 ml/min
02/08/2023 12:46	02:00	7.58 pH	12.58 °C	781.05 µS/cm	1.68 mg/L		17.0 mV	1,208.0 cm	2,000.0 ml/min
02/08/2023 12:46	02:30	7.59 pH	12.50 °C	783.98 µS/cm	1.41 mg/L		14.5 mV	1,208.0 cm	2,000.0 ml/min
02/08/2023 12:47	03:13	7.57 pH	12.52 °C	792.92 µS/cm	1.16 mg/L		20.0 mV	1,208.0 cm	2,000.0 ml/min
02/08/2023 12:47	03:43	7.56 pH	12.53 °C	790.76 µS/cm	1.13 mg/L		16.2 mV	1,208.0 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 01/08/2023 13:08:00
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH232 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 7 m** **Top of Screen: 1 m** **Total Depth: 6.95 m** **Initial Depth to Water: 4.45 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 18000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
01/08/2023 13:08	00:00	8.88 pH	17.45 °C	53.18 µS/cm	9.05 mg/L		1.7 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:08	00:30	7.38 pH	16.87 °C	257.62 µS/cm	7.91 mg/L		-44.0 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:09	01:00	7.10 pH	16.33 °C	369.18 µS/cm	4.82 mg/L		-42.4 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:09	01:30	7.04 pH	15.70 °C	399.15 µS/cm	2.77 mg/L		-45.6 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:10	02:00	7.03 pH	15.25 °C	409.35 µS/cm	1.78 mg/L		-47.6 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:10	02:30	7.02 pH	14.91 °C	414.16 µS/cm	1.30 mg/L		-49.1 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:11	03:00	7.02 pH	14.67 °C	425.45 µS/cm	1.04 mg/L		-50.1 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:11	03:30	7.02 pH	14.49 °C	417.28 µS/cm	0.87 mg/L		-52.1 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:12	04:00	7.00 pH	14.40 °C	417.99 µS/cm	0.68 mg/L		-53.0 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:12	04:30	7.01 pH	14.33 °C	418.62 µS/cm	0.55 mg/L		-54.2 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:13	05:00	7.00 pH	14.29 °C	419.11 µS/cm	0.46 mg/L		-55.2 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:13	05:30	7.01 pH	14.24 °C	414.35 µS/cm	0.39 mg/L		-55.5 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:14	06:00	7.01 pH	14.18 °C	397.01 µS/cm	0.42 mg/L		-54.4 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:14	06:30	7.02 pH	14.14 °C	382.09 µS/cm	0.52 mg/L		-53.3 mV	445.00 cm	2,000.0 ml/min

01/08/2023 13:15	07:00	7.02 pH	14.16 °C	373.10 µS/cm	0.60 mg/L		-52.4 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:15	07:30	7.02 pH	14.17 °C	369.80 µS/cm	0.63 mg/L		-51.7 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:16	08:00	7.01 pH	14.17 °C	371.79 µS/cm	0.63 mg/L		-51.2 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:16	08:30	7.01 pH	14.14 °C	374.00 µS/cm	0.53 mg/L		-51.3 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:17	09:00	7.01 pH	14.12 °C	378.74 µS/cm	0.45 mg/L		-52.1 mV	445.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 7/26/2023 2:39:43 PM
Project: GCRE 2
Operator Name: KW

Location Name: S2-BH237 **Well Diameter: 5 cm** **Total Depth: 25.5 m** **Initial Depth to Water: 11.9 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 31000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Heavy rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/26/2023 2:39 PM	00:00	7.50 pH	13.08 °C	344.38 µS/cm	3.28 mg/L		319.9 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:40 PM	00:30	7.31 pH	12.40 °C	298.94 µS/cm	2.63 mg/L		573.1 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:40 PM	01:00	7.05 pH	12.04 °C	288.37 µS/cm	2.49 mg/L		682.7 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:41 PM	01:30	6.68 pH	11.88 °C	284.18 µS/cm	2.49 mg/L		787.3 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:41 PM	02:00	6.39 pH	11.78 °C	286.70 µS/cm	2.44 mg/L		871.0 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:42 PM	02:30	6.21 pH	11.75 °C	289.20 µS/cm	2.35 mg/L		929.3 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:42 PM	03:00	6.09 pH	11.75 °C	291.12 µS/cm	2.25 mg/L		961.9 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:43 PM	03:30	6.00 pH	11.77 °C	293.17 µS/cm	2.12 mg/L		912.0 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:43 PM	04:00	5.94 pH	11.80 °C	294.90 µS/cm	1.98 mg/L		979.8 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:44 PM	04:30	5.92 pH	11.85 °C	297.09 µS/cm	1.81 mg/L		990.4 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:44 PM	05:00	5.90 pH	11.87 °C	298.05 µS/cm	1.63 mg/L		997.7 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:45 PM	05:30	5.89 pH	11.91 °C	297.61 µS/cm	1.44 mg/L		1,001.2 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:45 PM	06:00	5.91 pH	11.96 °C	297.45 µS/cm	1.28 mg/L		1,002.8 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:46 PM	06:30	5.92 pH	12.01 °C	297.35 µS/cm	1.14 mg/L		1,004.2 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:46 PM	07:00	5.94 pH	12.04 °C	299.73 µS/cm	1.01 mg/L		1,003.5 mV	1,190.0 cm	2,000.0 ml/min

7/26/2023 2:47 PM	07:30	5.96 pH	12.08 °C	304.66 µS/cm	0.90 mg/L		1,002.9 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:47 PM	08:00	5.98 pH	12.11 °C	313.53 µS/cm	0.79 mg/L		944.4 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:48 PM	08:30	6.00 pH	12.12 °C	320.07 µS/cm	0.71 mg/L		1,021.6 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:48 PM	09:00	6.01 pH	12.13 °C	329.84 µS/cm	0.63 mg/L		998.3 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:49 PM	09:30	6.03 pH	12.14 °C	340.47 µS/cm	0.55 mg/L		996.7 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:49 PM	10:00	6.07 pH	12.15 °C	351.50 µS/cm	0.48 mg/L		992.8 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:50 PM	10:30	6.10 pH	12.16 °C	361.22 µS/cm	0.41 mg/L		991.2 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:50 PM	11:00	6.12 pH	12.17 °C	370.08 µS/cm	0.36 mg/L		989.1 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:51 PM	11:30	6.14 pH	12.17 °C	378.83 µS/cm	0.32 mg/L		987.7 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:51 PM	12:00	6.16 pH	12.17 °C	387.35 µS/cm	0.28 mg/L		985.0 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:52 PM	12:30	6.18 pH	12.17 °C	395.32 µS/cm	0.25 mg/L		982.8 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:52 PM	13:00	6.20 pH	12.17 °C	403.26 µS/cm	0.23 mg/L		979.9 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:53 PM	13:30	6.22 pH	12.17 °C	410.00 µS/cm	0.21 mg/L		978.9 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:53 PM	14:00	6.23 pH	12.18 °C	416.16 µS/cm	0.19 mg/L		977.5 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:54 PM	14:30	6.25 pH	12.18 °C	421.79 µS/cm	0.17 mg/L		974.2 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:54 PM	15:00	6.27 pH	12.19 °C	426.53 µS/cm	0.16 mg/L		975.5 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:55 PM	15:30	6.29 pH	12.19 °C	430.47 µS/cm	0.15 mg/L		972.7 mV	1,190.0 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 7/25/2023 12:12:41 PM
Project: GCRE 2 (3)
Operator Name: KW

Location Name: S2-BH239.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 2.6 m** **Top of Screen: 1 m** **Total Depth: 3.6 m** **Initial Depth to Water: 1.46 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 19000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Windy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/25/2023 12:12 PM	00:00	8.23 pH	20.68 °C	1,160.5 µS/cm	5.85 mg/L		416.2 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:13 PM	00:30	8.16 pH	19.34 °C	1,164.9 µS/cm	1.51 mg/L		801.7 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:13 PM	01:00	8.08 pH	18.70 °C	1,186.9 µS/cm	0.75 mg/L		864.0 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:14 PM	01:30	8.02 pH	18.32 °C	1,199.3 µS/cm	0.51 mg/L		902.3 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:14 PM	02:00	7.98 pH	17.94 °C	1,204.0 µS/cm	0.43 mg/L		892.8 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:15 PM	02:30	7.95 pH	17.61 °C	1,210.4 µS/cm	0.39 mg/L		892.0 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:15 PM	03:00	7.92 pH	17.50 °C	1,218.5 µS/cm	0.37 mg/L		894.3 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:16 PM	03:30	7.90 pH	17.56 °C	1,226.0 µS/cm	0.36 mg/L		894.0 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:16 PM	04:00	7.88 pH	17.69 °C	1,229.0 µS/cm	0.35 mg/L		893.3 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:17 PM	04:30	7.87 pH	17.80 °C	1,228.6 µS/cm	0.33 mg/L		890.9 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:17 PM	05:00	7.86 pH	17.86 °C	1,227.1 µS/cm	0.32 mg/L		893.2 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:18 PM	05:30	7.85 pH	17.89 °C	1,225.3 µS/cm	0.31 mg/L		890.1 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:18 PM	06:00	7.84 pH	17.94 °C	1,225.1 µS/cm	0.29 mg/L		891.2 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:19 PM	06:30	7.84 pH	17.95 °C	1,224.2 µS/cm	0.28 mg/L		890.0 mV	146.00 cm	2,000.0 ml/min

7/25/2023 12:19 PM	07:00	7.84 pH	17.88 °C	1,221.4 µS/cm	0.27 mg/L		890.1 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:20 PM	07:30	7.83 pH	17.81 °C	1,220.3 µS/cm	0.27 mg/L		889.1 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:20 PM	08:00	7.83 pH	17.74 °C	1,221.0 µS/cm	0.27 mg/L		889.9 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:21 PM	08:30	7.83 pH	17.73 °C	1,222.9 µS/cm	0.27 mg/L		888.9 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:21 PM	09:00	7.83 pH	17.72 °C	1,221.8 µS/cm	0.26 mg/L		889.5 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:22 PM	09:30	7.83 pH	17.67 °C	1,221.2 µS/cm	0.26 mg/L		890.7 mV	146.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW4	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/25/2023 11:52:33 AM
Project: GCRE 2 (2)
Operator Name: KW

Location Name: S2-BH239.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 3 m** **Top of Screen: 7 m** **Total Depth: 7.8 m** **Initial Depth to Water: 1.74 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 18000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Windy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/25/2023 11:52 AM	00:00	8.08 pH	17.06 °C	1,194.1 µS/cm	0.28 mg/L		326.4 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:53 AM	00:30	8.03 pH	16.90 °C	1,205.8 µS/cm	0.40 mg/L		688.0 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:53 AM	01:00	8.00 pH	16.78 °C	1,211.3 µS/cm	0.18 mg/L		822.6 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:54 AM	01:30	7.97 pH	16.74 °C	1,214.2 µS/cm	0.14 mg/L		865.7 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:54 AM	02:00	7.94 pH	16.76 °C	1,215.8 µS/cm	0.12 mg/L		880.6 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:55 AM	02:30	7.92 pH	16.82 °C	1,215.0 µS/cm	0.11 mg/L		889.4 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:55 AM	03:00	7.91 pH	16.91 °C	1,220.0 µS/cm	0.11 mg/L		892.3 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:56 AM	03:30	7.89 pH	16.97 °C	1,221.0 µS/cm	0.10 mg/L		892.2 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:56 AM	04:00	7.88 pH	17.04 °C	1,220.0 µS/cm	0.10 mg/L		893.5 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:57 AM	04:30	7.88 pH	17.08 °C	1,220.2 µS/cm	0.10 mg/L		891.5 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:57 AM	05:00	7.87 pH	17.11 °C	1,220.0 µS/cm	0.10 mg/L		890.9 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:58 AM	05:30	7.86 pH	17.15 °C	1,220.1 µS/cm	0.09 mg/L		892.1 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:58 AM	06:00	7.86 pH	17.17 °C	1,219.8 µS/cm	0.09 mg/L		890.6 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:59 AM	06:30	7.85 pH	17.19 °C	1,219.4 µS/cm	0.09 mg/L		888.7 mV	174.00 cm	2,000.0 ml/min

7/25/2023 11:59 AM	07:00	7.85 pH	17.19 °C	1,219.6 µS/cm	0.08 mg/L		890.4 mV	174.00 cm	2,000.0 ml/min
7/25/2023 12:00 PM	07:30	7.85 pH	17.14 °C	1,217.8 µS/cm	0.08 mg/L		887.5 mV	174.00 cm	2,000.0 ml/min
7/25/2023 12:00 PM	08:00	7.84 pH	17.11 °C	1,218.4 µS/cm	0.08 mg/L		886.5 mV	174.00 cm	2,000.0 ml/min
7/25/2023 12:01 PM	08:30	7.84 pH	17.11 °C	1,218.2 µS/cm	0.08 mg/L		901.5 mV	174.00 cm	2,000.0 ml/min
7/25/2023 12:01 PM	09:00	7.84 pH	17.10 °C	1,217.5 µS/cm	0.08 mg/L		886.5 mV	174.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW3	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/25/2023 9:51:08 AM
Project: GCRE 2
Operator Name: KW

Location Name: S2-BH240 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 5 m** **Top of Screen: 1 m** **Total Depth: 5.16 m** **Initial Depth to Water: 1.55 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 28000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Windy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/25/2023 9:51 AM	00:00	8.09 pH	17.13 °C	1,167.5 µS/cm	5.12 mg/L		387.1 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:51 AM	00:30	7.99 pH	16.11 °C	1,246.5 µS/cm	1.13 mg/L		642.6 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:52 AM	01:00	7.95 pH	15.40 °C	1,266.3 µS/cm	0.34 mg/L		748.0 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:52 AM	01:30	7.94 pH	14.92 °C	1,277.8 µS/cm	0.23 mg/L		793.0 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:53 AM	02:00	7.94 pH	14.63 °C	1,281.5 µS/cm	0.18 mg/L		808.0 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:53 AM	02:30	7.94 pH	14.48 °C	1,283.3 µS/cm	0.14 mg/L		816.9 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:54 AM	03:00	7.94 pH	14.42 °C	1,285.0 µS/cm	0.12 mg/L		823.0 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:54 AM	03:30	7.95 pH	14.40 °C	1,286.6 µS/cm	0.12 mg/L		824.8 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:55 AM	04:00	7.95 pH	14.40 °C	1,287.9 µS/cm	0.11 mg/L		827.7 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:55 AM	04:30	7.96 pH	14.42 °C	1,289.9 µS/cm	0.10 mg/L		826.5 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:56 AM	05:00	7.97 pH	14.43 °C	1,291.2 µS/cm	0.09 mg/L		826.5 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:56 AM	05:30	7.97 pH	14.45 °C	1,292.3 µS/cm	0.09 mg/L		828.0 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:57 AM	06:00	7.98 pH	14.49 °C	1,293.6 µS/cm	0.08 mg/L		825.7 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:57 AM	06:30	7.99 pH	14.53 °C	1,294.1 µS/cm	0.08 mg/L		826.4 mV	155.00 cm	2,000.0 ml/min

7/25/2023 9:58 AM	07:00	7.99 pH	14.55 °C	1,293.0 µS/cm	0.07 mg/L		827.5 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:58 AM	07:30	8.00 pH	14.56 °C	1,290.6 µS/cm	0.07 mg/L		825.9 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:59 AM	08:00	8.00 pH	14.58 °C	1,290.3 µS/cm	0.06 mg/L		824.9 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:59 AM	08:30	8.70 pH	14.63 °C	9.59 µS/cm	2.36 mg/L		950.8 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:00 AM	09:00	8.03 pH	14.73 °C	2.90 µS/cm	5.18 mg/L		1,046.4 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:00 AM	09:30	8.06 pH	14.70 °C	1,285.9 µS/cm	3.56 mg/L		854.6 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:01 AM	10:00	8.04 pH	14.56 °C	1,287.0 µS/cm	0.72 mg/L		843.9 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:01 AM	10:30	8.04 pH	14.40 °C	1,289.1 µS/cm	0.19 mg/L		851.1 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:02 AM	11:00	8.04 pH	14.30 °C	1,289.2 µS/cm	0.09 mg/L		845.4 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:02 AM	11:30	8.05 pH	14.22 °C	1,288.1 µS/cm	0.07 mg/L		840.1 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:03 AM	12:00	8.05 pH	14.14 °C	1,284.0 µS/cm	0.06 mg/L		837.9 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:03 AM	12:30	8.05 pH	14.11 °C	1,279.8 µS/cm	0.05 mg/L		885.6 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:04 AM	13:00	8.06 pH	14.11 °C	1,277.5 µS/cm	0.05 mg/L		841.0 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:04 AM	13:30	8.06 pH	14.10 °C	1,277.2 µS/cm	0.04 mg/L		836.7 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:05 AM	14:00	8.06 pH	14.07 °C	1,277.2 µS/cm	0.03 mg/L		834.9 mV	155.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 25/07/2023 10:22:25
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH242 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 2.7 m** **Top of Screen: 1 m** **Total Depth: 3.79 m** **Initial Depth to Water: 1.88 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 41000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
25/07/2023 10:22	00:00	7.81 pH	14.47 °C	731.46 µS/cm	5.18 mg/L		-47.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:22	00:30	7.81 pH	14.22 °C	704.30 µS/cm	1.73 mg/L		-51.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:23	01:00	7.83 pH	14.30 °C	677.48 µS/cm	0.74 mg/L		-62.1 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:23	01:30	7.84 pH	14.53 °C	672.38 µS/cm	0.42 mg/L		-70.8 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:24	02:00	7.84 pH	14.73 °C	669.81 µS/cm	0.31 mg/L		-72.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:24	02:30	7.83 pH	14.93 °C	667.26 µS/cm	0.28 mg/L		-72.6 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:25	03:00	7.82 pH	15.06 °C	665.78 µS/cm	0.25 mg/L		-73.7 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:25	03:30	7.82 pH	15.19 °C	659.58 µS/cm	0.24 mg/L		-109.0 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:26	04:00	7.81 pH	15.23 °C	654.42 µS/cm	0.24 mg/L		-77.8 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:26	04:30	7.81 pH	15.27 °C	653.09 µS/cm	0.24 mg/L		-75.5 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:27	05:00	7.81 pH	15.38 °C	649.17 µS/cm	0.24 mg/L		-111.0 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:27	05:30	7.81 pH	15.48 °C	650.17 µS/cm	0.24 mg/L		-83.2 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:28	06:00	7.81 pH	15.55 °C	649.58 µS/cm	0.24 mg/L		-118.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:28	06:30	7.81 pH	15.57 °C	645.82 µS/cm	0.23 mg/L		-89.7 mV	188.00 cm	2,000.0 ml/min

25/07/2023 10:29	07:00	7.82 pH	15.50 °C	643.95 µS/cm	0.21 mg/L		-90.6 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:29	07:30	7.82 pH	15.52 °C	643.44 µS/cm	0.20 mg/L		-93.1 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:30	08:00	7.82 pH	15.52 °C	642.97 µS/cm	0.19 mg/L		-94.7 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:30	08:30	7.82 pH	15.48 °C	643.27 µS/cm	0.18 mg/L		-129.7 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:31	09:00	7.81 pH	15.48 °C	645.95 µS/cm	0.17 mg/L		-99.0 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:31	09:30	7.81 pH	15.51 °C	648.85 µS/cm	0.18 mg/L		-95.9 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:32	10:00	7.80 pH	15.52 °C	651.95 µS/cm	0.18 mg/L		-128.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:32	10:30	7.80 pH	15.52 °C	652.00 µS/cm	0.18 mg/L		-97.2 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:33	11:00	7.79 pH	15.48 °C	653.35 µS/cm	0.18 mg/L		-127.5 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:33	11:30	7.79 pH	15.46 °C	654.84 µS/cm	0.18 mg/L		-96.2 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:34	12:00	7.78 pH	15.51 °C	657.43 µS/cm	0.17 mg/L		-93.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:34	12:30	7.78 pH	15.51 °C	656.05 µS/cm	0.16 mg/L		-125.4 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:35	13:00	7.78 pH	15.45 °C	656.55 µS/cm	0.15 mg/L		-94.8 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:35	13:30	7.78 pH	15.42 °C	653.83 µS/cm	0.13 mg/L		-92.1 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:36	14:00	7.78 pH	15.45 °C	652.43 µS/cm	0.12 mg/L		-125.1 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:36	14:30	7.78 pH	15.52 °C	651.33 µS/cm	0.12 mg/L		-95.8 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:37	15:00	7.78 pH	15.52 °C	650.29 µS/cm	0.11 mg/L		-93.1 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:37	15:30	7.77 pH	15.52 °C	648.22 µS/cm	0.12 mg/L		-125.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:38	16:00	7.77 pH	15.50 °C	648.27 µS/cm	0.13 mg/L		-95.5 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:38	16:30	7.77 pH	15.54 °C	648.19 µS/cm	0.13 mg/L		-92.7 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:39	17:00	7.77 pH	15.57 °C	646.33 µS/cm	0.14 mg/L		-124.1 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:39	17:30	7.76 pH	15.53 °C	645.81 µS/cm	0.15 mg/L		-93.5 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:40	18:00	7.76 pH	15.48 °C	645.23 µS/cm	0.18 mg/L		-122.2 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:40	18:30	7.75 pH	15.45 °C	644.71 µS/cm	0.21 mg/L		-91.1 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:41	19:00	7.75 pH	15.40 °C	644.53 µS/cm	0.25 mg/L		-86.9 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:41	19:30	7.75 pH	15.35 °C	643.87 µS/cm	0.30 mg/L		-85.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:42	20:00	7.74 pH	15.34 °C	644.04 µS/cm	0.35 mg/L		-84.2 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:42	20:30	7.74 pH	15.33 °C	642.69 µS/cm	0.38 mg/L		-83.1 mV	188.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 25/07/2023 09:35:32
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH243.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 1 m** **Top of Screen: 5 m** **Total Depth: 5.93 m** **Initial Depth to Water: 3.18 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 10000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
25/07/2023 09:35	00:00	7.57 pH	13.12 °C	522.45 µS/cm	6.92 mg/L		4.3 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:36	00:30	7.54 pH	12.70 °C	546.14 µS/cm	3.77 mg/L		2.6 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:36	01:00	7.52 pH	12.44 °C	557.34 µS/cm	2.64 mg/L		7.8 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:37	01:30	7.50 pH	12.29 °C	565.51 µS/cm	2.09 mg/L		11.3 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:37	02:00	7.48 pH	12.21 °C	569.19 µS/cm	1.77 mg/L		13.4 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:38	02:30	7.45 pH	12.18 °C	570.20 µS/cm	1.56 mg/L		14.4 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:38	03:00	7.43 pH	12.17 °C	571.18 µS/cm	1.42 mg/L		14.6 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:39	03:30	7.42 pH	12.16 °C	571.05 µS/cm	1.35 mg/L		14.5 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:39	04:00	7.41 pH	12.16 °C	561.62 µS/cm	1.38 mg/L		21.8 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:40	04:30	7.40 pH	12.20 °C	563.46 µS/cm	1.44 mg/L		15.5 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:40	05:00	7.40 pH	12.21 °C	571.68 µS/cm	1.51 mg/L		14.4 mV	318.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:

EW2	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/24/2023 11:40:57 AM
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH244.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 5.5 m** **Top of Screen: 4.5 m** **Total Depth: 9.25 m** **Initial Depth to Water: 2.9 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 20000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Overcast

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/24/2023 11:40 AM	00:00	7.89 pH	13.45 °C	619.65 µS/cm	7.41 mg/L		586.0 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:41 AM	00:30	7.91 pH	13.05 °C	637.07 µS/cm	3.55 mg/L		711.7 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:41 AM	01:00	7.90 pH	12.80 °C	633.24 µS/cm	2.20 mg/L		788.1 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:42 AM	01:30	7.89 pH	12.68 °C	633.75 µS/cm	1.93 mg/L		841.3 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:42 AM	02:00	7.88 pH	12.59 °C	632.20 µS/cm	1.90 mg/L		870.4 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:43 AM	02:30	7.86 pH	12.55 °C	632.26 µS/cm	1.95 mg/L		888.5 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:43 AM	03:00	7.85 pH	12.54 °C	634.27 µS/cm	2.00 mg/L		899.0 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:44 AM	03:30	7.84 pH	12.58 °C	637.04 µS/cm	2.05 mg/L		902.8 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:44 AM	04:00	7.83 pH	12.60 °C	640.52 µS/cm	2.09 mg/L		904.2 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:45 AM	04:30	7.82 pH	12.63 °C	642.60 µS/cm	2.12 mg/L		906.3 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:45 AM	05:00	7.81 pH	12.67 °C	644.36 µS/cm	2.13 mg/L		906.1 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:46 AM	05:30	7.80 pH	12.67 °C	646.10 µS/cm	2.14 mg/L		909.3 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:46 AM	06:00	7.80 pH	12.67 °C	648.70 µS/cm	2.16 mg/L		909.2 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:47 AM	06:30	7.79 pH	12.64 °C	651.10 µS/cm	2.15 mg/L		910.9 mV	290.00 cm	2,000.0 ml/min

7/24/2023 11:47 AM	07:00	7.79 pH	12.60 °C	653.40 µS/cm	2.13 mg/L		909.7 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:48 AM	07:30	7.78 pH	12.54 °C	655.45 µS/cm	2.10 mg/L		911.0 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:48 AM	08:00	7.78 pH	12.51 °C	657.31 µS/cm	2.09 mg/L		912.1 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:49 AM	08:30	7.78 pH	12.48 °C	657.95 µS/cm	2.08 mg/L		911.1 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:49 AM	09:00	7.78 pH	12.44 °C	658.61 µS/cm	2.07 mg/L		910.8 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:50 AM	09:30	7.77 pH	12.41 °C	659.13 µS/cm	2.05 mg/L		910.7 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:50 AM	10:00	7.77 pH	12.40 °C	659.29 µS/cm	2.06 mg/L		912.7 mV	290.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 24/07/2023 14:32:52
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH246.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 4.5 m** **Top of Screen: 3.5 m** **Total Depth: 7.86 m** **Initial Depth to Water: 3.08 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 20000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Overcast

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
24/07/2023 14:32	00:00	7.69 pH	19.05 °C	605.95 µS/cm	7.40 mg/L		32.6 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:33	00:30	7.37 pH	17.94 °C	725.98 µS/cm	4.76 mg/L		19.7 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:33	01:00	7.33 pH	17.11 °C	738.67 µS/cm	4.32 mg/L		20.4 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:34	01:30	7.32 pH	16.27 °C	748.41 µS/cm	4.48 mg/L		21.0 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:34	02:00	7.32 pH	15.59 °C	753.26 µS/cm	4.61 mg/L		20.4 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:35	02:30	7.31 pH	15.20 °C	756.66 µS/cm	4.66 mg/L		20.0 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:35	03:00	7.31 pH	14.89 °C	760.05 µS/cm	4.66 mg/L		19.8 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:36	03:30	7.30 pH	14.69 °C	757.44 µS/cm	4.62 mg/L		19.8 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:36	04:00	7.30 pH	14.51 °C	761.01 µS/cm	4.56 mg/L		19.5 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:37	04:30	7.30 pH	14.35 °C	760.64 µS/cm	4.49 mg/L		19.2 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:37	05:00	7.29 pH	14.23 °C	760.81 µS/cm	4.48 mg/L		19.0 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:38	05:30	7.29 pH	14.16 °C	761.46 µS/cm	4.52 mg/L		18.9 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:38	06:00	7.29 pH	14.12 °C	760.23 µS/cm	4.56 mg/L		18.9 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:39	06:30	7.28 pH	14.08 °C	759.29 µS/cm	4.60 mg/L		19.0 mV	308.00 cm	2,000.0 ml/min

24/07/2023 14:39	07:00	7.28 pH	14.04 °C	757.59 µS/cm	4.61 mg/L		19.0 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:40	07:30	7.28 pH	13.99 °C	757.14 µS/cm	4.61 mg/L		18.8 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:40	08:00	7.28 pH	14.00 °C	757.52 µS/cm	4.61 mg/L		18.5 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:41	08:30	7.28 pH	13.94 °C	759.21 µS/cm	4.61 mg/L		17.9 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:41	09:00	7.28 pH	13.88 °C	759.81 µS/cm	4.61 mg/L		18.3 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:42	09:30	7.28 pH	13.85 °C	760.10 µS/cm	4.61 mg/L		18.0 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:42	10:00	7.28 pH	13.81 °C	760.94 µS/cm	4.61 mg/L		18.4 mV	308.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 7/25/2023 2:55:41 PM
Project: GCRE 2
Operator Name: KW

Location Name: S2-BH248.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 3 m** **Top of Screen: 6.5 m** **Total Depth: 9.26 m** **Initial Depth to Water: 6.1 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 18000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/25/2023 2:55 PM	00:00	8.34 pH	23.21 °C	750.51 µS/cm	3.02 mg/L		492.8 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:56 PM	00:30	8.19 pH	20.53 °C	775.89 µS/cm	0.68 mg/L		900.5 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:56 PM	01:00	8.12 pH	18.66 °C	791.30 µS/cm	0.20 mg/L		931.3 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:57 PM	01:30	8.07 pH	17.10 °C	809.07 µS/cm	0.11 mg/L		932.3 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:57 PM	02:00	8.04 pH	16.08 °C	823.11 µS/cm	0.08 mg/L		934.7 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:58 PM	02:30	8.02 pH	15.39 °C	835.66 µS/cm	0.07 mg/L		937.0 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:58 PM	03:00	8.01 pH	14.96 °C	848.38 µS/cm	0.07 mg/L		939.5 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:59 PM	03:30	8.00 pH	14.69 °C	861.13 µS/cm	0.07 mg/L		942.3 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:59 PM	04:00	7.98 pH	14.52 °C	871.37 µS/cm	0.07 mg/L		945.6 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:00 PM	04:30	7.96 pH	14.41 °C	879.27 µS/cm	0.07 mg/L		950.3 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:00 PM	05:00	7.95 pH	14.31 °C	883.35 µS/cm	0.07 mg/L		953.8 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:01 PM	05:30	7.93 pH	14.27 °C	887.64 µS/cm	0.06 mg/L		956.9 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:01 PM	06:00	7.91 pH	14.22 °C	889.91 µS/cm	0.06 mg/L		957.8 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:02 PM	06:30	7.89 pH	14.19 °C	893.73 µS/cm	0.06 mg/L		958.9 mV	610.00 cm	2,000.0 ml/min

7/25/2023 3:02 PM	07:00	7.87 pH	14.18 °C	896.60 µS/cm	0.06 mg/L		961.0 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:03 PM	07:30	7.86 pH	14.15 °C	899.29 µS/cm	0.06 mg/L		962.7 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:03 PM	08:00	7.84 pH	14.16 °C	901.30 µS/cm	0.06 mg/L		960.9 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:04 PM	08:30	7.83 pH	14.17 °C	902.25 µS/cm	0.06 mg/L		962.1 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:04 PM	09:00	7.81 pH	14.18 °C	901.81 µS/cm	0.05 mg/L		961.7 mV	610.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 7/24/2023 2:41:19 PM
Project: GCRE 2
Operator Name: KW

Location Name: S2-BH249.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 4.5 m** **Top of Screen: 3.5 m** **Total Depth: 7.65 m** **Initial Depth to Water: 3.76 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 23000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/24/2023 2:41 PM	00:00	8.07 pH	19.42 °C	819.01 µS/cm	8.07 mg/L		486.3 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:41 PM	00:30	8.10 pH	17.63 °C	896.99 µS/cm	6.50 mg/L		849.0 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:42 PM	01:00	7.99 pH	16.43 °C	901.76 µS/cm	3.68 mg/L		894.7 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:42 PM	01:30	7.91 pH	15.57 °C	918.10 µS/cm	2.95 mg/L		911.8 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:43 PM	02:00	7.86 pH	14.87 °C	930.03 µS/cm	2.89 mg/L		923.0 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:43 PM	02:30	7.82 pH	14.40 °C	938.19 µS/cm	2.93 mg/L		925.6 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:44 PM	03:00	7.78 pH	13.98 °C	934.15 µS/cm	2.96 mg/L		931.6 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:44 PM	03:30	7.75 pH	13.81 °C	937.05 µS/cm	2.96 mg/L		934.6 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:45 PM	04:00	7.73 pH	13.70 °C	940.01 µS/cm	2.96 mg/L		935.4 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:45 PM	04:30	7.71 pH	13.61 °C	939.56 µS/cm	2.96 mg/L		942.7 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:46 PM	05:00	7.70 pH	13.55 °C	938.65 µS/cm	2.97 mg/L		939.8 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:46 PM	05:30	7.68 pH	13.52 °C	938.30 µS/cm	2.97 mg/L		940.3 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:47 PM	06:00	7.67 pH	13.51 °C	938.45 µS/cm	2.98 mg/L		941.3 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:47 PM	06:30	7.66 pH	13.49 °C	937.03 µS/cm	2.98 mg/L		944.4 mV	376.00 cm	2,000.0 ml/min

7/24/2023 2:48 PM	07:00	7.65 pH	13.40 °C	941.69 µS/cm	2.99 mg/L		942.3 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:48 PM	07:30	7.64 pH	13.36 °C	943.47 µS/cm	2.99 mg/L		948.0 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:49 PM	08:00	7.64 pH	13.27 °C	942.96 µS/cm	2.99 mg/L		942.9 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:49 PM	08:30	7.63 pH	13.20 °C	942.05 µS/cm	2.98 mg/L		944.4 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:50 PM	09:00	7.63 pH	13.13 °C	940.80 µS/cm	2.97 mg/L		943.1 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:50 PM	09:30	7.63 pH	13.07 °C	939.72 µS/cm	2.96 mg/L		944.4 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:51 PM	10:00	7.62 pH	13.02 °C	940.00 µS/cm	2.96 mg/L		942.5 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:51 PM	10:30	7.62 pH	12.98 °C	939.98 µS/cm	2.97 mg/L		943.8 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:52 PM	11:00	7.62 pH	12.95 °C	939.79 µS/cm	2.95 mg/L		942.8 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:52 PM	11:30	7.62 pH	12.91 °C	939.82 µS/cm	2.93 mg/L		941.6 mV	376.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
15	

Low-Flow Test Report:

Test Date / Time: 7/26/2023 10:33:02 AM
Project: GCRE 2
Operator Name: KW

Location Name: S2-BH250.1 **Well Diameter: 5 cm** **Screen Length: 2 m** **Top of Screen: 7.5 m** **Total Depth: 9.3 m** **Initial Depth to Water: 3.23 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 18000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/26/2023 10:33 AM	00:00	8.16 pH	14.64 °C	599.71 µS/cm	5.64 mg/L		401.6 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:33 AM	00:30	8.14 pH	13.86 °C	601.58 µS/cm	3.68 mg/L		639.0 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:34 AM	01:00	8.10 pH	13.27 °C	606.02 µS/cm	3.24 mg/L		771.5 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:34 AM	01:30	8.07 pH	12.90 °C	608.61 µS/cm	3.13 mg/L		840.6 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:35 AM	02:00	8.04 pH	12.58 °C	609.86 µS/cm	3.08 mg/L		872.0 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:35 AM	02:30	8.00 pH	12.40 °C	610.83 µS/cm	3.02 mg/L		888.6 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:36 AM	03:00	7.97 pH	12.26 °C	613.22 µS/cm	3.00 mg/L		896.9 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:36 AM	03:30	7.95 pH	12.21 °C	614.56 µS/cm	2.99 mg/L		904.9 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:37 AM	04:00	7.92 pH	12.17 °C	616.15 µS/cm	3.00 mg/L		907.6 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:37 AM	04:30	7.91 pH	12.13 °C	617.68 µS/cm	3.02 mg/L		911.7 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:38 AM	05:00	7.89 pH	12.12 °C	618.85 µS/cm	3.06 mg/L		913.0 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:38 AM	05:30	7.88 pH	12.13 °C	620.03 µS/cm	3.09 mg/L		910.4 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:39 AM	06:00	7.88 pH	12.13 °C	621.02 µS/cm	3.14 mg/L		910.7 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:39 AM	06:30	7.87 pH	12.14 °C	621.93 µS/cm	3.19 mg/L		913.6 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:40 AM	07:00	7.87 pH	12.16 °C	622.87 µS/cm	3.23 mg/L		910.2 mV	323.00 cm	2,000.0 ml/min

7/26/2023 10:40 AM	07:30	7.86 pH	12.16 °C	623.70 µS/cm	3.28 mg/L		909.9 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:41 AM	08:00	7.86 pH	12.17 °C	623.84 µS/cm	3.30 mg/L		912.6 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:41 AM	08:30	7.86 pH	12.17 °C	624.31 µS/cm	3.33 mg/L		909.8 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:42 AM	09:00	7.86 pH	12.17 °C	624.33 µS/cm	3.34 mg/L		909.8 mV	323.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 25/07/2023 12:21:35
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH252.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 3 m** **Top of Screen: 6 m** **Total Depth: 8.87 m** **Initial Depth to Water: 4.07 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 35000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
25/07/2023 12:21	00:00	8.03 pH	20.65 °C	584.68 µS/cm	7.72 mg/L		22.5 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:22	00:30	7.79 pH	17.77 °C	440.59 µS/cm	5.44 mg/L		24.5 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:22	01:00	7.70 pH	16.02 °C	437.84 µS/cm	4.48 mg/L		24.2 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:23	01:30	7.65 pH	14.78 °C	443.23 µS/cm	4.25 mg/L		23.8 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:23	02:00	7.63 pH	13.89 °C	447.45 µS/cm	4.22 mg/L		21.4 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:24	02:30	7.61 pH	13.22 °C	434.31 µS/cm	4.25 mg/L		21.7 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:24	03:00	7.58 pH	12.76 °C	437.14 µS/cm	4.27 mg/L		22.2 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:25	03:30	7.56 pH	12.42 °C	437.62 µS/cm	4.27 mg/L		22.0 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:25	04:00	7.55 pH	12.20 °C	441.86 µS/cm	4.25 mg/L		21.5 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:26	04:30	7.56 pH	12.02 °C	451.67 µS/cm	4.21 mg/L		21.1 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:26	05:00	7.57 pH	11.85 °C	458.93 µS/cm	4.18 mg/L		20.6 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:27	05:30	7.58 pH	11.73 °C	457.15 µS/cm	4.15 mg/L		20.4 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:27	06:00	7.57 pH	11.62 °C	451.41 µS/cm	4.12 mg/L		20.3 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:28	06:30	7.55 pH	11.54 °C	444.49 µS/cm	4.10 mg/L		20.5 mV	407.00 cm	2,000.0 ml/min

25/07/2023 12:28	07:00	7.53 pH	11.46 °C	438.16 µS/cm	4.08 mg/L		20.7 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:29	07:30	7.51 pH	11.38 °C	435.52 µS/cm	4.05 mg/L		21.1 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:29	08:00	7.50 pH	11.33 °C	432.33 µS/cm	4.02 mg/L		21.1 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:30	08:30	7.48 pH	11.29 °C	422.83 µS/cm	3.98 mg/L		34.1 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:30	09:00	7.47 pH	11.24 °C	420.11 µS/cm	3.95 mg/L		24.7 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:31	09:30	7.46 pH	11.21 °C	416.56 µS/cm	3.93 mg/L		37.2 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:31	10:00	7.45 pH	11.18 °C	414.85 µS/cm	3.90 mg/L		25.8 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:32	10:30	7.44 pH	11.14 °C	411.79 µS/cm	3.88 mg/L		38.1 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:32	11:00	7.43 pH	11.12 °C	410.56 µS/cm	3.85 mg/L		26.2 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:33	11:30	7.42 pH	11.11 °C	413.72 µS/cm	3.83 mg/L		23.6 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:33	12:00	7.41 pH	11.10 °C	410.96 µS/cm	3.81 mg/L		22.6 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:34	12:30	7.41 pH	11.10 °C	408.83 µS/cm	3.79 mg/L		22.0 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:34	13:00	7.40 pH	11.08 °C	400.50 µS/cm	3.77 mg/L		34.8 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:35	13:30	7.39 pH	11.07 °C	399.24 µS/cm	3.76 mg/L		24.9 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:35	14:00	7.38 pH	11.07 °C	403.83 µS/cm	3.75 mg/L		23.0 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:36	14:30	7.38 pH	11.07 °C	402.40 µS/cm	3.74 mg/L		22.2 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:36	15:00	7.37 pH	11.06 °C	394.85 µS/cm	3.73 mg/L		34.5 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:37	15:30	7.37 pH	11.03 °C	393.54 µS/cm	3.72 mg/L		24.8 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:37	16:00	7.36 pH	11.01 °C	398.91 µS/cm	3.71 mg/L		23.0 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:38	16:30	7.36 pH	11.01 °C	397.88 µS/cm	3.71 mg/L		22.1 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:38	17:00	7.35 pH	11.01 °C	397.14 µS/cm	3.70 mg/L		21.7 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:39	17:30	7.35 pH	10.99 °C	396.21 µS/cm	3.69 mg/L		21.4 mV	407.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 26/07/2023 10:26:58
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH261.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 5 m** **Top of Screen: 10 m** **Total Depth: 14.08 m** **Initial Depth to Water: 9.2 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 120000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
26/07/2023 10:26	00:00	7.87 pH	14.62 °C	446.05 µS/cm	8.02 mg/L		27.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:27	00:30	7.38 pH	14.49 °C	725.24 µS/cm	5.24 mg/L		-31.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:27	01:00	7.34 pH	14.42 °C	728.19 µS/cm	3.85 mg/L		-33.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:28	01:30	7.32 pH	14.34 °C	724.02 µS/cm	3.05 mg/L		-33.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:28	02:00	7.31 pH	14.28 °C	724.16 µS/cm	2.52 mg/L		-33.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:29	02:30	7.30 pH	14.24 °C	723.22 µS/cm	3.96 mg/L		-33.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:29	03:00	7.30 pH	14.22 °C	718.34 µS/cm	4.73 mg/L		-33.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:30	03:30	7.29 pH	14.22 °C	715.74 µS/cm	5.28 mg/L		-33.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:30	04:00	7.29 pH	14.20 °C	714.98 µS/cm	5.58 mg/L		-33.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:31	04:30	7.29 pH	14.20 °C	707.56 µS/cm	5.74 mg/L		-33.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:31	05:00	7.28 pH	14.21 °C	705.28 µS/cm	5.86 mg/L		-33.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:32	05:30	7.28 pH	14.21 °C	704.57 µS/cm	5.90 mg/L		-33.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:32	06:00	7.28 pH	14.22 °C	703.84 µS/cm	5.86 mg/L		-33.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:33	06:30	7.28 pH	14.22 °C	694.43 µS/cm	5.81 mg/L		-51.4 mV	920.00 cm	2,000.0 ml/min

26/07/2023 10:33	07:00	7.28 pH	14.22 °C	693.61 µS/cm	5.70 mg/L		-36.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:34	07:30	7.28 pH	14.23 °C	693.38 µS/cm	5.61 mg/L		-34.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:34	08:00	7.27 pH	14.24 °C	686.49 µS/cm	5.56 mg/L		-52.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:35	08:30	7.27 pH	14.24 °C	685.65 µS/cm	5.56 mg/L		-36.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:35	09:00	7.27 pH	14.24 °C	683.97 µS/cm	5.58 mg/L		-53.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:36	09:30	7.27 pH	14.25 °C	681.75 µS/cm	5.56 mg/L		-36.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:36	10:00	7.28 pH	14.25 °C	683.93 µS/cm	5.51 mg/L		-34.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:37	10:30	7.27 pH	14.25 °C	677.73 µS/cm	5.50 mg/L		-52.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:37	11:00	7.27 pH	14.26 °C	674.47 µS/cm	5.50 mg/L		-36.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:38	11:30	7.27 pH	14.26 °C	677.59 µS/cm	5.51 mg/L		-34.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:38	12:00	7.27 pH	14.26 °C	672.28 µS/cm	5.48 mg/L		-52.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:39	12:30	7.27 pH	14.26 °C	671.93 µS/cm	5.43 mg/L		-36.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:39	13:00	7.26 pH	14.26 °C	675.00 µS/cm	5.42 mg/L		-34.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:40	13:30	7.26 pH	14.26 °C	674.39 µS/cm	5.41 mg/L		-33.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:40	14:00	7.26 pH	14.26 °C	673.96 µS/cm	5.43 mg/L		-33.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:41	14:30	7.26 pH	14.26 °C	669.12 µS/cm	5.44 mg/L		-50.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:41	15:00	7.26 pH	14.26 °C	669.09 µS/cm	5.47 mg/L		-35.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:42	15:30	7.25 pH	14.26 °C	672.43 µS/cm	5.50 mg/L		-33.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:42	16:00	7.25 pH	14.26 °C	667.80 µS/cm	5.50 mg/L		-51.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:43	16:30	7.25 pH	14.27 °C	667.73 µS/cm	5.47 mg/L		-35.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:43	17:00	7.25 pH	14.26 °C	667.02 µS/cm	5.46 mg/L		-51.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:44	17:30	7.25 pH	14.27 °C	666.94 µS/cm	5.45 mg/L		-36.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:44	18:00	7.25 pH	14.28 °C	670.42 µS/cm	5.42 mg/L		-33.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:45	18:30	7.25 pH	14.28 °C	665.56 µS/cm	5.40 mg/L		-51.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:45	19:00	7.25 pH	14.30 °C	665.25 µS/cm	5.38 mg/L		-35.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:46	19:30	7.24 pH	14.30 °C	664.67 µS/cm	5.36 mg/L		-51.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:46	20:00	7.24 pH	14.30 °C	664.75 µS/cm	5.36 mg/L		-35.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:47	20:30	7.24 pH	14.30 °C	663.77 µS/cm	5.34 mg/L		-51.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:47	21:00	7.24 pH	14.29 °C	663.88 µS/cm	5.31 mg/L		-35.8 mV	920.00 cm	2,000.0 ml/min

26/07/2023 10:48	21:30	7.24 pH	14.29 °C	667.46 µS/cm	5.28 mg/L		-33.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:48	22:00	7.24 pH	14.27 °C	663.05 µS/cm	5.26 mg/L		-50.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:49	22:30	7.24 pH	14.29 °C	663.61 µS/cm	5.23 mg/L		-35.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:49	23:00	7.24 pH	14.29 °C	662.61 µS/cm	5.22 mg/L		-51.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:50	23:30	7.23 pH	14.28 °C	663.33 µS/cm	5.22 mg/L		-35.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:50	24:00	7.23 pH	14.26 °C	663.35 µS/cm	5.20 mg/L		-51.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:51	24:30	7.23 pH	14.25 °C	663.55 µS/cm	5.19 mg/L		-35.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:51	25:00	7.23 pH	14.23 °C	666.62 µS/cm	5.19 mg/L		-33.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:52	25:30	7.23 pH	14.22 °C	662.85 µS/cm	5.18 mg/L		-50.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:52	26:00	7.23 pH	14.22 °C	662.74 µS/cm	5.16 mg/L		-35.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:53	26:30	7.23 pH	14.21 °C	665.93 µS/cm	5.14 mg/L		-33.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:53	27:00	7.23 pH	14.19 °C	661.72 µS/cm	5.12 mg/L		-49.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:54	27:30	7.23 pH	14.18 °C	661.56 µS/cm	5.10 mg/L		-34.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:54	28:00	7.23 pH	14.17 °C	664.72 µS/cm	5.10 mg/L		-32.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:55	28:30	7.23 pH	14.17 °C	664.52 µS/cm	5.09 mg/L		-32.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:55	29:00	7.23 pH	14.17 °C	660.14 µS/cm	5.08 mg/L		-49.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:56	29:30	7.23 pH	14.17 °C	660.16 µS/cm	5.08 mg/L		-34.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:56	30:00	7.23 pH	14.17 °C	659.40 µS/cm	5.06 mg/L		-50.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:57	30:30	7.23 pH	14.17 °C	659.49 µS/cm	5.05 mg/L		-34.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:57	31:00	7.23 pH	14.17 °C	662.65 µS/cm	5.04 mg/L		-32.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:58	31:30	7.23 pH	14.17 °C	658.72 µS/cm	5.03 mg/L		-49.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:58	32:00	7.23 pH	14.17 °C	659.08 µS/cm	5.01 mg/L		-34.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:59	32:30	7.23 pH	14.17 °C	658.47 µS/cm	5.01 mg/L		-50.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:59	33:00	7.23 pH	14.17 °C	658.54 µS/cm	5.00 mg/L		-35.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:00	33:30	7.23 pH	14.17 °C	658.03 µS/cm	4.99 mg/L		-50.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:00	34:00	7.23 pH	14.18 °C	658.07 µS/cm	4.98 mg/L		-35.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:01	34:30	7.23 pH	14.18 °C	657.64 µS/cm	4.99 mg/L		-50.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:01	35:00	7.23 pH	14.20 °C	657.57 µS/cm	4.98 mg/L		-35.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:02	35:30	7.23 pH	14.20 °C	656.96 µS/cm	4.95 mg/L		-50.8 mV	920.00 cm	2,000.0 ml/min

26/07/2023 11:02	36:00	7.23 pH	14.22 °C	657.13 µS/cm	4.94 mg/L		-35.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:03	36:30	7.23 pH	14.22 °C	661.23 µS/cm	4.93 mg/L		-33.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:03	37:00	7.23 pH	14.21 °C	657.92 µS/cm	4.92 mg/L		-49.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:04	37:30	7.23 pH	14.22 °C	657.97 µS/cm	4.92 mg/L		-34.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:04	38:00	7.23 pH	14.23 °C	657.39 µS/cm	4.92 mg/L		-50.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:05	38:30	7.23 pH	14.24 °C	657.32 µS/cm	4.92 mg/L		-35.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:05	39:00	7.23 pH	14.24 °C	657.17 µS/cm	4.94 mg/L		-50.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:06	39:30	7.23 pH	14.26 °C	656.99 µS/cm	4.96 mg/L		-35.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:06	40:00	7.23 pH	14.26 °C	656.27 µS/cm	4.97 mg/L		-50.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:07	40:30	7.23 pH	14.26 °C	656.30 µS/cm	4.98 mg/L		-35.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:07	41:00	7.23 pH	14.26 °C	655.93 µS/cm	4.99 mg/L		-50.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:08	41:30	7.22 pH	14.28 °C	655.76 µS/cm	5.00 mg/L		-35.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:08	42:00	7.22 pH	14.28 °C	655.37 µS/cm	4.99 mg/L		-33.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:09	42:30	7.22 pH	14.29 °C	658.44 µS/cm	4.99 mg/L		-32.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:09	43:00	7.22 pH	14.29 °C	654.80 µS/cm	4.97 mg/L		-49.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:10	43:30	7.22 pH	14.30 °C	654.73 µS/cm	4.96 mg/L		-34.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:10	44:00	7.22 pH	14.30 °C	654.66 µS/cm	4.98 mg/L		-50.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:11	44:30	7.22 pH	14.31 °C	654.62 µS/cm	4.97 mg/L		-34.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:11	45:00	7.22 pH	14.31 °C	654.09 µS/cm	4.97 mg/L		-50.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:12	45:30	7.22 pH	14.30 °C	656.62 µS/cm	4.98 mg/L		-34.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:12	46:00	7.22 pH	14.31 °C	653.91 µS/cm	4.97 mg/L		-33.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:13	46:30	7.22 pH	14.30 °C	655.63 µS/cm	4.97 mg/L		-32.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:13	47:00	7.22 pH	14.31 °C	656.65 µS/cm	4.97 mg/L		-31.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:14	47:30	7.22 pH	14.31 °C	653.22 µS/cm	4.97 mg/L		-48.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:14	48:00	7.22 pH	14.31 °C	653.21 µS/cm	4.96 mg/L		-34.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:15	48:30	7.22 pH	14.31 °C	652.85 µS/cm	4.97 mg/L		-49.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:15	49:00	7.22 pH	14.32 °C	652.75 µS/cm	4.96 mg/L		-34.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:16	49:30	7.22 pH	14.32 °C	655.67 µS/cm	4.96 mg/L		-32.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:16	50:00	7.22 pH	14.32 °C	652.29 µS/cm	4.96 mg/L		-49.4 mV	920.00 cm	2,000.0 ml/min

26/07/2023 11:17	50:30	7.22 pH	14.33 °C	653.71 µS/cm	4.96 mg/L		-34.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:17	51:00	7.22 pH	14.34 °C	653.31 µS/cm	4.96 mg/L		-50.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:18	51:30	7.22 pH	14.35 °C	653.44 µS/cm	4.96 mg/L		-35.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:18	52:00	7.22 pH	14.35 °C	653.53 µS/cm	4.96 mg/L		-50.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:19	52:30	7.22 pH	14.37 °C	653.59 µS/cm	4.95 mg/L		-35.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:19	53:00	7.22 pH	14.40 °C	653.12 µS/cm	4.95 mg/L		-50.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:20	53:30	7.22 pH	14.40 °C	653.32 µS/cm	4.96 mg/L		-35.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:20	54:00	7.22 pH	14.41 °C	652.83 µS/cm	4.95 mg/L		-50.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:21	54:30	7.22 pH	14.43 °C	652.68 µS/cm	4.94 mg/L		-35.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:21	55:00	7.22 pH	14.42 °C	652.13 µS/cm	4.94 mg/L		-50.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:22	55:30	7.22 pH	14.43 °C	651.95 µS/cm	4.94 mg/L		-35.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:22	56:00	7.22 pH	14.42 °C	651.83 µS/cm	4.94 mg/L		-50.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:23	56:30	7.22 pH	14.41 °C	651.79 µS/cm	4.94 mg/L		-35.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:23	57:00	7.22 pH	14.41 °C	654.65 µS/cm	4.94 mg/L		-33.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:24	57:30	7.22 pH	14.40 °C	654.54 µS/cm	4.93 mg/L		-32.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:24	58:00	7.22 pH	14.40 °C	654.50 µS/cm	4.93 mg/L		-32.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:25	58:30	7.22 pH	14.40 °C	650.98 µS/cm	4.91 mg/L		-48.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:25	59:00	7.22 pH	14.40 °C	651.10 µS/cm	4.90 mg/L		-34.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:26	59:30	7.22 pH	14.37 °C	653.96 µS/cm	4.91 mg/L		-32.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:26	01:00:00	7.22 pH	14.35 °C	653.94 µS/cm	4.90 mg/L		-32.1 mV	920.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 25/07/2023 15:41:41
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH261.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 5 m** **Top of Screen: 3 m** **Total Depth: 7.7 m** **Initial Depth to Water: 4.46 m**	**Pump Type: Wasp Pump** **Estimated Total Volume Pumped: 120000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
25/07/2023 15:41	00:00	7.98 pH	21.66 °C	431.59 µS/cm	8.05 mg/L		44.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:42	00:30	7.65 pH	19.45 °C	420.51 µS/cm	7.24 mg/L		41.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:42	01:00	7.50 pH	18.21 °C	423.09 µS/cm	7.07 mg/L		40.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:43	01:30	7.42 pH	17.27 °C	427.07 µS/cm	7.11 mg/L		39.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:43	02:00	7.38 pH	16.74 °C	430.54 µS/cm	7.16 mg/L		38.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:44	02:30	7.35 pH	16.31 °C	432.44 µS/cm	7.21 mg/L		38.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:44	03:00	7.34 pH	15.98 °C	434.22 µS/cm	7.23 mg/L		37.2 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:45	03:30	7.32 pH	15.75 °C	435.19 µS/cm	7.25 mg/L		36.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:45	04:00	7.31 pH	15.54 °C	435.27 µS/cm	7.26 mg/L		36.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:46	04:30	7.30 pH	15.42 °C	436.17 µS/cm	7.27 mg/L		35.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:46	05:00	7.29 pH	15.30 °C	428.67 µS/cm	7.28 mg/L		57.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:47	05:30	7.29 pH	15.21 °C	429.02 µS/cm	7.29 mg/L		40.2 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:47	06:00	7.28 pH	15.12 °C	428.24 µS/cm	7.28 mg/L		60.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:48	06:30	7.28 pH	15.03 °C	428.62 µS/cm	7.29 mg/L		40.9 mV	446.00 cm	2,000.0 ml/min

25/07/2023 15:48	07:00	7.27 pH	14.97 °C	428.73 µS/cm	7.30 mg/L		37.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:49	07:30	7.27 pH	14.93 °C	435.96 µS/cm	7.29 mg/L		35.7 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:49	08:00	7.27 pH	14.89 °C	428.50 µS/cm	7.29 mg/L		55.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:50	08:30	7.26 pH	14.86 °C	429.15 µS/cm	7.30 mg/L		38.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:50	09:00	7.26 pH	14.87 °C	437.16 µS/cm	7.31 mg/L		35.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:51	09:30	7.26 pH	14.90 °C	429.46 µS/cm	7.31 mg/L		55.2 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:51	10:00	7.26 pH	14.92 °C	429.87 µS/cm	7.31 mg/L		38.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:52	10:30	7.26 pH	14.94 °C	437.08 µS/cm	7.31 mg/L		35.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:52	11:00	7.25 pH	14.94 °C	429.59 µS/cm	7.32 mg/L		54.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:53	11:30	7.25 pH	14.96 °C	430.05 µS/cm	7.31 mg/L		37.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:53	12:00	7.25 pH	14.97 °C	429.66 µS/cm	7.32 mg/L		56.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:54	12:30	7.25 pH	14.98 °C	429.96 µS/cm	7.31 mg/L		38.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:54	13:00	7.25 pH	14.95 °C	429.36 µS/cm	7.31 mg/L		56.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:55	13:30	7.25 pH	14.94 °C	429.73 µS/cm	7.31 mg/L		38.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:55	14:00	7.25 pH	14.91 °C	428.54 µS/cm	7.31 mg/L		56.2 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:56	14:30	7.25 pH	14.89 °C	430.08 µS/cm	7.31 mg/L		38.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:56	15:00	7.25 pH	14.85 °C	429.17 µS/cm	7.30 mg/L		55.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:57	15:30	7.25 pH	14.83 °C	429.47 µS/cm	7.30 mg/L		38.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:57	16:00	7.25 pH	14.81 °C	429.24 µS/cm	7.31 mg/L		55.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:58	16:30	7.24 pH	14.84 °C	429.98 µS/cm	7.31 mg/L		37.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:58	17:00	7.24 pH	14.85 °C	429.51 µS/cm	7.31 mg/L		55.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:59	17:30	7.24 pH	14.85 °C	430.01 µS/cm	7.31 mg/L		37.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:59	18:00	7.24 pH	14.88 °C	437.79 µS/cm	7.31 mg/L		34.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:00	18:30	7.24 pH	14.89 °C	429.48 µS/cm	7.31 mg/L		52.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:00	19:00	7.24 pH	14.88 °C	429.89 µS/cm	7.30 mg/L		37.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:01	19:30	7.24 pH	14.86 °C	437.45 µS/cm	7.30 mg/L		34.2 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:01	20:00	7.24 pH	14.85 °C	437.13 µS/cm	7.30 mg/L		32.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:02	20:30	7.24 pH	14.84 °C	436.77 µS/cm	7.30 mg/L		32.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:02	21:00	7.24 pH	14.81 °C	429.20 µS/cm	7.30 mg/L		49.8 mV	446.00 cm	2,000.0 ml/min

25/07/2023 16:03	21:30	7.24 pH	14.80 °C	429.65 µS/cm	7.30 mg/L		35.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:03	22:00	7.24 pH	14.76 °C	429.10 µS/cm	7.30 mg/L		52.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:04	22:30	7.24 pH	14.75 °C	428.85 µS/cm	7.30 mg/L		59.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:04	23:00	7.24 pH	14.72 °C	429.54 µS/cm	7.30 mg/L		38.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:05	23:30	7.24 pH	14.72 °C	436.93 µS/cm	7.30 mg/L		35.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:05	24:00	7.24 pH	14.69 °C	429.06 µS/cm	7.30 mg/L		52.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:06	24:30	7.24 pH	14.67 °C	429.26 µS/cm	7.30 mg/L		36.7 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:06	25:00	7.24 pH	14.67 °C	428.65 µS/cm	7.30 mg/L		53.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:07	25:30	7.23 pH	14.66 °C	429.04 µS/cm	7.29 mg/L		37.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:07	26:00	7.24 pH	14.64 °C	436.98 µS/cm	7.30 mg/L		33.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:08	26:30	7.23 pH	14.62 °C	428.80 µS/cm	7.30 mg/L		51.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:08	27:00	7.23 pH	14.62 °C	429.26 µS/cm	7.30 mg/L		35.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:09	27:30	7.23 pH	14.62 °C	428.80 µS/cm	7.30 mg/L		52.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:09	28:00	7.23 pH	14.63 °C	429.71 µS/cm	7.31 mg/L		36.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:10	28:30	7.23 pH	14.66 °C	437.75 µS/cm	7.31 mg/L		33.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:10	29:00	7.23 pH	14.70 °C	429.52 µS/cm	7.31 mg/L		50.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:11	29:30	7.23 pH	14.74 °C	430.17 µS/cm	7.31 mg/L		35.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:11	30:00	7.23 pH	14.76 °C	429.26 µS/cm	7.31 mg/L		51.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:12	30:30	7.23 pH	14.79 °C	430.02 µS/cm	7.31 mg/L		35.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:12	31:00	7.23 pH	14.82 °C	438.09 µS/cm	7.31 mg/L		33.2 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:13	31:30	7.23 pH	14.85 °C	429.60 µS/cm	7.31 mg/L		49.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:13	32:00	7.23 pH	14.87 °C	430.25 µS/cm	7.31 mg/L		35.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:14	32:30	7.23 pH	14.90 °C	430.14 µS/cm	7.31 mg/L		32.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:14	33:00	7.23 pH	14.87 °C	437.57 µS/cm	7.29 mg/L		31.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:15	33:30	7.23 pH	14.87 °C	429.37 µS/cm	7.30 mg/L		48.7 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:15	34:00	7.23 pH	14.89 °C	429.86 µS/cm	7.30 mg/L		34.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:16	34:30	7.23 pH	14.89 °C	429.48 µS/cm	7.30 mg/L		50.7 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:16	35:00	7.23 pH	14.91 °C	429.92 µS/cm	7.30 mg/L		35.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:17	35:30	7.23 pH	14.92 °C	429.12 µS/cm	7.29 mg/L		51.4 mV	446.00 cm	2,000.0 ml/min

25/07/2023 16:17	36:00	7.23 pH	14.87 °C	429.55 µS/cm	7.29 mg/L		35.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:18	36:30	7.23 pH	14.85 °C	437.51 µS/cm	7.29 mg/L		32.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:18	37:00	7.23 pH	14.89 °C	429.30 µS/cm	7.30 mg/L		49.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:19	37:30	7.23 pH	14.90 °C	430.14 µS/cm	7.30 mg/L		34.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:19	38:00	7.23 pH	14.89 °C	429.21 µS/cm	7.29 mg/L		51.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:20	38:30	7.23 pH	14.85 °C	429.72 µS/cm	7.28 mg/L		35.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:20	39:00	7.23 pH	14.83 °C	428.77 µS/cm	7.29 mg/L		51.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:21	39:30	7.23 pH	14.81 °C	429.54 µS/cm	7.29 mg/L		35.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:21	40:00	7.23 pH	14.83 °C	437.87 µS/cm	7.29 mg/L		32.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:22	40:30	7.22 pH	14.85 °C	429.29 µS/cm	7.30 mg/L		49.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:22	41:00	7.23 pH	14.79 °C	429.42 µS/cm	7.28 mg/L		34.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:23	41:30	7.23 pH	14.76 °C	428.74 µS/cm	7.29 mg/L		50.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:23	42:00	7.23 pH	14.73 °C	429.39 µS/cm	7.29 mg/L		34.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:24	42:30	7.23 pH	14.72 °C	428.90 µS/cm	7.29 mg/L		50.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:24	43:00	7.23 pH	14.70 °C	429.37 µS/cm	7.29 mg/L		34.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:25	43:30	7.23 pH	14.67 °C	428.94 µS/cm	7.29 mg/L		50.7 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:25	44:00	7.23 pH	14.67 °C	429.57 µS/cm	7.29 mg/L		35.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:26	44:30	7.22 pH	14.66 °C	428.77 µS/cm	7.29 mg/L		50.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:26	45:00	7.23 pH	14.64 °C	429.36 µS/cm	7.29 mg/L		35.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:27	45:30	7.23 pH	14.62 °C	428.80 µS/cm	7.29 mg/L		50.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:27	46:00	7.23 pH	14.62 °C	429.42 µS/cm	7.29 mg/L		34.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:28	46:30	7.22 pH	14.60 °C	428.94 µS/cm	7.29 mg/L		50.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:28	47:00	7.22 pH	14.60 °C	429.45 µS/cm	7.29 mg/L		34.7 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:29	47:30	7.22 pH	14.59 °C	437.81 µS/cm	7.29 mg/L		32.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:29	48:00	7.22 pH	14.58 °C	429.05 µS/cm	7.30 mg/L		47.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:30	48:30	7.22 pH	14.62 °C	430.05 µS/cm	7.30 mg/L		33.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:30	49:00	7.22 pH	14.67 °C	429.23 µS/cm	7.29 mg/L		48.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:31	49:30	7.22 pH	14.67 °C	429.85 µS/cm	7.30 mg/L		34.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:31	50:00	7.22 pH	14.67 °C	429.17 µS/cm	7.30 mg/L		49.3 mV	446.00 cm	2,000.0 ml/min

25/07/2023 16:32	50:30	7.22 pH	14.68 °C	429.76 µS/cm	7.30 mg/L		34.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:32	51:00	7.22 pH	14.71 °C	429.21 µS/cm	7.30 mg/L		49.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:33	51:30	7.22 pH	14.74 °C	429.80 µS/cm	7.30 mg/L		34.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:33	52:00	7.22 pH	14.76 °C	438.00 µS/cm	7.30 mg/L		31.7 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:34	52:30	7.22 pH	14.77 °C	429.31 µS/cm	7.30 mg/L		47.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:34	53:00	7.22 pH	14.80 °C	429.67 µS/cm	7.30 mg/L		33.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:35	53:30	7.22 pH	14.80 °C	429.17 µS/cm	7.29 mg/L		48.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:35	54:00	7.22 pH	14.81 °C	429.72 µS/cm	7.30 mg/L		33.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:36	54:30	7.22 pH	14.83 °C	438.05 µS/cm	7.29 mg/L		31.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:36	55:00	7.22 pH	14.84 °C	429.69 µS/cm	7.29 mg/L		30.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:37	55:30	7.22 pH	14.85 °C	438.02 µS/cm	7.28 mg/L		29.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:37	56:00	7.22 pH	14.85 °C	429.21 µS/cm	7.29 mg/L		45.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:38	56:30	7.22 pH	14.86 °C	429.82 µS/cm	7.30 mg/L		32.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:38	57:00	7.22 pH	14.86 °C	429.13 µS/cm	7.29 mg/L		47.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:39	57:30	7.22 pH	14.87 °C	429.78 µS/cm	7.29 mg/L		33.2 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:39	58:00	7.22 pH	14.87 °C	429.06 µS/cm	7.29 mg/L		48.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:40	58:30	7.22 pH	14.87 °C	429.88 µS/cm	7.29 mg/L		33.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:40	59:00	7.22 pH	14.87 °C	429.08 µS/cm	7.29 mg/L		48.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:41	59:30	7.22 pH	14.88 °C	429.56 µS/cm	7.29 mg/L		33.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:41	01:00:00	7.22 pH	14.87 °C	437.94 µS/cm	7.29 mg/L		31.2 mV	446.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Low-Flow Test Report:

Test Date / Time: 8/29/2023 1:40:39 PM
Project: GCRE 3
Operator Name: KW

Location Name: S1-BH118 **Well Diameter: 5 cm** **Total Depth: 15 m** **Initial Depth to Water: 7.13 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 12000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Raining

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/29/2023 1:40 PM	00:00	7.00 pH	12.76 °C	496.48 µS/cm	1.32 mg/L		604.6 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:41 PM	00:30	6.99 pH	12.36 °C	493.61 µS/cm	0.46 mg/L		1,081.7 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:41 PM	01:00	6.72 pH	12.10 °C	486.81 µS/cm	0.22 mg/L		1,129.1 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:42 PM	01:30	6.58 pH	11.88 °C	470.15 µS/cm	0.15 mg/L		1,131.8 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:42 PM	02:00	6.47 pH	11.75 °C	452.51 µS/cm	0.12 mg/L		1,128.4 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:43 PM	02:30	6.37 pH	11.66 °C	433.77 µS/cm	0.11 mg/L		1,128.8 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:43 PM	03:00	6.37 pH	11.62 °C	418.08 µS/cm	0.10 mg/L		1,130.0 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:44 PM	03:30	6.31 pH	11.60 °C	405.93 µS/cm	0.09 mg/L		1,133.0 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:44 PM	04:00	6.29 pH	11.58 °C	397.67 µS/cm	0.08 mg/L		1,133.2 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:45 PM	04:30	6.29 pH	11.58 °C	391.96 µS/cm	0.08 mg/L		1,137.4 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:45 PM	05:00	6.24 pH	11.58 °C	388.05 µS/cm	0.07 mg/L		1,132.4 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:46 PM	05:30	6.23 pH	11.61 °C	386.12 µS/cm	0.07 mg/L		1,136.8 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:46 PM	06:00	6.23 pH	11.62 °C	384.96 µS/cm	0.07 mg/L		1,140.5 mV	713.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW3	

Low-Flow Test Report:

Test Date / Time: 8/29/2023 1:03:06 PM
Project: GCRE 3
Operator Name: KW

Location Name: S1-BH119.1 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 7 m** **Top of Screen: 8 m** **Total Depth: 15 m** **Initial Depth to Water: 8 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 9000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Raining

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/29/2023 1:03 PM	00:00	7.14 pH	12.23 °C	405.81 µS/cm	0.81 mg/L		749.6 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:03 PM	00:30	7.09 pH	11.85 °C	402.26 µS/cm	0.25 mg/L		1,108.3 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:04 PM	01:00	6.93 pH	11.66 °C	397.09 µS/cm	0.14 mg/L		1,143.2 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:04 PM	01:30	6.80 pH	11.57 °C	393.59 µS/cm	0.10 mg/L		1,151.2 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:05 PM	02:00	6.70 pH	11.49 °C	389.17 µS/cm	0.09 mg/L		1,152.2 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:05 PM	02:30	6.63 pH	11.43 °C	385.81 µS/cm	0.07 mg/L		1,152.5 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:06 PM	03:00	6.58 pH	11.41 °C	383.71 µS/cm	0.07 mg/L		1,150.7 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:06 PM	03:30	6.54 pH	11.39 °C	382.63 µS/cm	0.06 mg/L		1,148.8 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:07 PM	04:00	6.51 pH	11.38 °C	382.07 µS/cm	0.05 mg/L		1,148.5 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:07 PM	04:30	6.48 pH	11.38 °C	381.86 µS/cm	0.05 mg/L		1,147.5 mV	800.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:

EW3	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/29/2023 2:20:50 PM
Project: GCRE 3
Operator Name: KW

Location Name: S1-BH120 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 8 m** **Top of Screen: 12 m** **Total Depth: 20.54 m** **Initial Depth to Water: 9.1 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 9000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/29/2023 2:20 PM	00:00	7.02 pH	13.59 °C	295.40 µS/cm	2.19 mg/L		643.7 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:21 PM	00:30	7.05 pH	13.01 °C	310.09 µS/cm	0.74 mg/L		1,112.4 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:21 PM	01:00	6.90 pH	12.55 °C	317.91 µS/cm	0.27 mg/L		1,147.4 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:22 PM	01:30	6.73 pH	12.35 °C	322.79 µS/cm	0.17 mg/L		1,151.3 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:22 PM	02:00	6.61 pH	12.17 °C	325.61 µS/cm	0.13 mg/L		1,148.6 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:23 PM	02:30	6.54 pH	12.05 °C	327.75 µS/cm	0.11 mg/L		1,143.1 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:23 PM	03:00	6.50 pH	11.99 °C	328.23 µS/cm	0.10 mg/L		1,139.4 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:24 PM	03:30	6.48 pH	11.97 °C	326.28 µS/cm	0.09 mg/L		1,138.7 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:24 PM	04:00	6.47 pH	11.95 °C	323.05 µS/cm	0.09 mg/L		1,139.2 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:25 PM	04:30	6.44 pH	11.98 °C	319.46 µS/cm	0.08 mg/L		1,137.0 mV	910.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:

EW3	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/4/2023 2:12:29 PM
Project: GCRE 3
Operator Name: KW

Location Name: S2-BH217.1 **Well Diameter: 1.9 cm** **Total Depth: 29.96 m** **Initial Depth to Water: 16.42 m**	**Pump Type: Waterra** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 1000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Dry

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
9/4/2023 2:12 PM	00:00	6.64 pH	22.09 °C	636.30 µS/cm	3.72 mg/L		821.4 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:12 PM	00:30	6.77 pH	18.95 °C	639.74 µS/cm	2.06 mg/L		1,161.2 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:13 PM	01:00	6.69 pH	17.41 °C	657.56 µS/cm	1.89 mg/L		1,179.8 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:13 PM	01:30	6.60 pH	16.69 °C	662.81 µS/cm	1.84 mg/L		1,186.1 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:14 PM	02:00	6.52 pH	16.13 °C	665.99 µS/cm	1.74 mg/L		1,188.9 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:14 PM	02:30	6.46 pH	15.84 °C	672.66 µS/cm	1.69 mg/L		1,190.9 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:15 PM	03:00	6.43 pH	15.75 °C	678.51 µS/cm	1.73 mg/L		1,191.9 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:15 PM	03:30	6.39 pH	15.66 °C	683.55 µS/cm	1.80 mg/L		1,192.7 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:16 PM	04:00	6.36 pH	15.65 °C	688.48 µS/cm	1.86 mg/L		1,193.2 mV	1,642.0 cm	1,000.00 ml/min

Samples

Sample ID:	Description:
Ew3	

Low-Flow Test Report:

Test Date / Time: 8/31/2023 1:04:36 PM
Project: GCRE 3
Operator Name: KW

Location Name: S2-BH229 **Well Diameter: 5 cm** **Total Depth: 14.2 m** **Initial Depth to Water: 12.4 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 7000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Heavy rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/31/2023 1:04 PM	00:00	5.99 pH	12.54 °C	763.63 µS/cm	0.77 mg/L		726.4 mV	1,240.0 cm	2,000.0 ml/min
8/31/2023 1:05 PM	00:30	6.38 pH	12.19 °C	761.00 µS/cm	0.39 mg/L		1,142.2 mV	1,240.0 cm	2,000.0 ml/min
8/31/2023 1:05 PM	01:00	6.30 pH	11.94 °C	761.20 µS/cm	0.32 mg/L		1,174.6 mV	1,240.0 cm	2,000.0 ml/min
8/31/2023 1:06 PM	01:30	6.27 pH	11.79 °C	759.48 µS/cm	0.39 mg/L		1,183.9 mV	1,240.0 cm	2,000.0 ml/min
8/31/2023 1:06 PM	02:00	6.24 pH	11.71 °C	758.77 µS/cm	0.50 mg/L		1,188.3 mV	1,240.0 cm	2,000.0 ml/min
8/31/2023 1:07 PM	02:30	6.20 pH	11.66 °C	760.07 µS/cm	0.53 mg/L		1,190.6 mV	1,240.0 cm	2,000.0 ml/min
8/31/2023 1:07 PM	03:00	6.16 pH	11.63 °C	763.85 µS/cm	0.47 mg/L		1,191.2 mV	1,240.0 cm	2,000.0 ml/min
8/31/2023 1:08 PM	03:30	6.15 pH	11.64 °C	768.24 µS/cm	0.38 mg/L		1,191.8 mV	1,240.0 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 25/08/2023 13:52:52
Project: GCRE-S2-BH237
Operator Name:

Location Name: BH237 **Initial Depth to Water: 12.47 m**	**Estimated Total Volume Pumped: 20000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
25/08/2023 13:52	00:00	7.97 pH	15.92 °C	920.54 µS/cm	8.45 mg/L		5.5 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:53	00:30	7.72 pH	15.52 °C	601.54 µS/cm	5.41 mg/L		-12.4 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:53	01:00	6.76 pH	14.13 °C	313.94 µS/cm	1.86 mg/L		-20.3 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:54	01:30	6.60 pH	13.40 °C	300.77 µS/cm	0.67 mg/L		-11.2 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:54	02:00	6.46 pH	12.67 °C	275.58 µS/cm	0.36 mg/L		4.9 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:55	02:30	6.40 pH	12.22 °C	271.23 µS/cm	0.26 mg/L		12.7 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:55	03:00	6.38 pH	11.97 °C	270.25 µS/cm	0.22 mg/L		18.8 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:56	03:30	6.34 pH	11.84 °C	259.70 µS/cm	0.20 mg/L		22.9 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:56	04:00	6.29 pH	11.75 °C	249.96 µS/cm	0.19 mg/L		27.0 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:57	04:30	6.26 pH	11.73 °C	244.53 µS/cm	0.18 mg/L		29.9 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:57	05:00	6.24 pH	11.71 °C	243.77 µS/cm	0.17 mg/L		42.9 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:58	05:30	6.22 pH	11.73 °C	243.98 µS/cm	0.17 mg/L		34.4 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:58	06:00	6.21 pH	11.75 °C	245.86 µS/cm	0.16 mg/L		34.8 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:59	06:30	6.21 pH	11.78 °C	248.06 µS/cm	0.16 mg/L		34.8 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:59	07:00	6.21 pH	11.81 °C	249.05 µS/cm	0.16 mg/L		34.9 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 14:00	07:30	6.21 pH	11.84 °C	248.67 µS/cm	0.15 mg/L		34.9 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 14:00	08:00	6.20 pH	11.84 °C	248.40 µS/cm	0.15 mg/L		35.5 mV	1,247.0 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
BH237	

Low-Flow Test Report:

Test Date / Time: 22/08/2023 15:27:56
Project: GCRE-S2-BH239#1
Operator Name:

Location Name: BH239#1 **Initial Depth to Water: 1.37 m**	**Estimated Total Volume Pumped: 22000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
22/08/2023 15:27	00:00	7.53 pH	15.90 °C	1,035.4 µS/cm	1.96 mg/L		-50.1 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:28	00:30	7.47 pH	15.68 °C	1,045.1 µS/cm	0.84 mg/L		-39.1 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:28	01:00	7.45 pH	15.57 °C	1,050.4 µS/cm	0.44 mg/L		-37.1 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:29	01:30	7.44 pH	15.48 °C	1,047.9 µS/cm	0.31 mg/L		-36.6 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:29	02:00	7.43 pH	15.43 °C	1,043.9 µS/cm	0.27 mg/L		-36.3 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:30	02:30	7.42 pH	15.39 °C	1,042.3 µS/cm	0.25 mg/L		-35.5 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:30	03:00	7.41 pH	15.39 °C	1,041.4 µS/cm	0.24 mg/L		-34.7 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:31	03:30	7.41 pH	15.39 °C	1,040.5 µS/cm	0.23 mg/L		-34.1 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:31	04:00	7.41 pH	15.39 °C	1,039.5 µS/cm	0.22 mg/L		-33.3 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:32	04:30	7.41 pH	15.39 °C	1,038.6 µS/cm	0.22 mg/L		-32.4 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:32	05:00	7.40 pH	15.39 °C	1,037.5 µS/cm	0.21 mg/L		-31.5 mV	137.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
BH239#1	

Low-Flow Test Report:

Test Date / Time: 22/08/2023 15:42:13
Project: GCRE-S2-BH239#2
Operator Name:

Location Name: GCRE-S2-BH239#2	**Estimated Total Volume Pumped: 28000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
22/08/2023 15:42	00:00	7.42 pH	16.09 °C	1,034.2 µS/cm	1.93 mg/L		-35.5 mV		2,000.0 ml/min
22/08/2023 15:42	00:30	7.42 pH	15.68 °C	1,014.8 µS/cm	2.51 mg/L		-23.4 mV		2,000.0 ml/min
22/08/2023 15:43	01:00	7.41 pH	15.34 °C	1,017.1 µS/cm	1.36 mg/L		-17.3 mV		2,000.0 ml/min
22/08/2023 15:43	01:30	7.41 pH	15.17 °C	1,020.4 µS/cm	0.91 mg/L		-16.1 mV		2,000.0 ml/min
22/08/2023 15:44	02:00	7.41 pH	15.09 °C	1,025.1 µS/cm	0.57 mg/L		-15.1 mV		2,000.0 ml/min
22/08/2023 15:44	02:30	7.41 pH	15.04 °C	1,025.6 µS/cm	0.42 mg/L		-14.1 mV		2,000.0 ml/min
22/08/2023 15:45	03:00	7.41 pH	15.03 °C	1,027.4 µS/cm	0.34 mg/L		-13.5 mV		2,000.0 ml/min
22/08/2023 15:45	03:30	7.41 pH	14.99 °C	1,028.2 µS/cm	0.29 mg/L		-13.0 mV		2,000.0 ml/min
22/08/2023 15:46	04:00	7.41 pH	15.00 °C	1,028.4 µS/cm	0.26 mg/L		-13.0 mV		2,000.0 ml/min
22/08/2023 15:46	04:30	7.41 pH	15.01 °C	1,029.6 µS/cm	0.17 mg/L		-13.0 mV		2,000.0 ml/min
22/08/2023 15:47	05:00	7.41 pH	15.00 °C	1,030.0 µS/cm	0.13 mg/L		-12.9 mV		2,000.0 ml/min

Samples

Sample ID:	Description:
BH239#2	

Low-Flow Test Report:

Test Date / Time: 22/08/2023 14:52:22
Project: GCRE-S2-BH240
Operator Name:

Location Name: BH240 **Initial Depth to Water: 1.51 m**	**Estimated Total Volume Pumped: 34000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
22/08/2023 14:52	00:00	8.08 pH	20.57 °C	1.33 µS/cm	8.03 mg/L		49.4 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:52	00:30	7.96 pH	20.57 °C	1.32 µS/cm	8.03 mg/L		37.7 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:53	01:00	7.93 pH	19.31 °C	416.88 µS/cm	7.89 mg/L		16.1 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:53	01:30	7.70 pH	16.37 °C	1,030.9 µS/cm	2.96 mg/L		-117.5 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:54	02:00	7.77 pH	15.36 °C	1,051.3 µS/cm	1.04 mg/L		-132.2 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:54	02:30	7.81 pH	14.73 °C	1,065.7 µS/cm	0.48 mg/L		-138.0 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:55	03:00	7.83 pH	14.32 °C	1,069.0 µS/cm	0.31 mg/L		-140.3 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:55	03:30	7.85 pH	14.08 °C	1,073.8 µS/cm	0.24 mg/L		-142.0 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:56	04:00	7.86 pH	13.94 °C	1,074.1 µS/cm	0.20 mg/L		-142.7 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:56	04:30	7.86 pH	13.86 °C	1,074.6 µS/cm	0.18 mg/L		-142.4 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:57	05:00	7.86 pH	13.81 °C	1,075.6 µS/cm	0.16 mg/L		-142.4 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:57	05:30	7.87 pH	13.77 °C	1,076.4 µS/cm	0.15 mg/L		-142.1 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:58	06:00	7.87 pH	13.76 °C	1,076.5 µS/cm	0.14 mg/L		-141.9 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:58	06:30	7.87 pH	13.72 °C	1,077.0 µS/cm	0.12 mg/L		-142.0 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:59	07:00	7.88 pH	13.71 °C	1,077.0 µS/cm	0.11 mg/L		-142.0 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:59	07:30	7.88 pH	13.70 °C	1,077.1 µS/cm	0.10 mg/L		-142.2 mV	151.00 cm	2,000.0 ml/min
22/08/2023 15:00	08:00	7.88 pH	13.68 °C	1,077.4 µS/cm	0.10 mg/L		-142.4 mV	151.00 cm	2,000.0 ml/min

22/08/2023 15:00	08:30	7.89 pH	13.67 °C	1,076.5 µS/cm	0.09 mg/L		-142.6 mV	151.00 cm	2,000.0 ml/min
22/08/2023 15:01	09:00	7.89 pH	13.67 °C	1,077.6 µS/cm	0.08 mg/L		-142.8 mV	151.00 cm	2,000.0 ml/min
22/08/2023 15:01	09:30	7.89 pH	13.67 °C	1,076.6 µS/cm	0.07 mg/L		-142.9 mV	151.00 cm	2,000.0 ml/min
22/08/2023 15:02	10:00	7.90 pH	13.67 °C	1,076.9 µS/cm	0.07 mg/L		-142.9 mV	151.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
BH240	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/22/2023 11:24:13 AM
Project: GCRE 3
Operator Name: KW

Location Name: S2-BH242 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 2.7 m** **Top of Screen: 1 m** **Total Depth: 3.74 m** **Initial Depth to Water: 2.1 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 19000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Wet

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/22/2023 11:24 AM	00:00	8.25 pH	17.71 °C	582.25 µS/cm	1.58 mg/L		640.7 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:24 AM	00:30	8.38 pH	16.73 °C	591.36 µS/cm	0.45 mg/L		969.8 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:25 AM	01:00	8.22 pH	16.16 °C	601.94 µS/cm	0.26 mg/L		989.8 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:25 AM	01:30	8.12 pH	15.84 °C	612.95 µS/cm	0.25 mg/L		1,002.2 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:26 AM	02:00	8.08 pH	15.66 °C	619.30 µS/cm	0.24 mg/L		1,008.0 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:26 AM	02:30		15.54 °C	620.11 µS/cm	0.24 mg/L			210.00 cm	2,000.0 ml/min
8/22/2023 11:27 AM	03:00	7.98 pH	15.48 °C	616.95 µS/cm	0.22 mg/L		1,025.1 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:27 AM	03:30	7.91 pH	15.41 °C	612.17 µS/cm	0.25 mg/L		1,035.1 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:28 AM	04:00	7.76 pH	15.39 °C	607.03 µS/cm	0.16 mg/L		1,050.6 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:28 AM	04:30	7.60 pH	15.39 °C	606.77 µS/cm	0.13 mg/L		1,067.4 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:29 AM	05:00	7.49 pH	15.36 °C	605.56 µS/cm	0.11 mg/L		1,078.0 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:29 AM	05:30	7.42 pH	15.35 °C	604.65 µS/cm	0.10 mg/L		1,082.7 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:30 AM	06:00	7.43 pH	15.35 °C	603.89 µS/cm	0.09 mg/L		1,080.2 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:30 AM	06:30	7.51 pH	15.33 °C	602.09 µS/cm	0.09 mg/L		1,072.5 mV	210.00 cm	2,000.0 ml/min

8/22/2023 11:31 AM	07:00	7.42 pH	15.31 °C	599.28 µS/cm	0.11 mg/L		1,083.0 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:31 AM	07:30	7.32 pH	15.30 °C	598.46 µS/cm	0.08 mg/L		1,091.8 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:32 AM	08:00	7.27 pH	15.30 °C	597.06 µS/cm	0.07 mg/L		1,094.0 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:32 AM	08:30	7.24 pH	15.31 °C	594.39 µS/cm	0.06 mg/L		1,097.1 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:33 AM	09:00	7.21 pH	15.30 °C	593.22 µS/cm	0.06 mg/L		1,100.1 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:33 AM	09:30	7.19 pH	15.30 °C	591.69 µS/cm	0.06 mg/L		1,100.2 mV	210.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW3	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 21/08/2023 14:54:01
Project: GCRE- BH243
Operator Name:

Location Name: BH243 **Initial Depth to Water: 2.98 m**	**Estimated Total Volume Pumped: 30000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0.15 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
21/08/2023 14:54	00:00	7.95 pH	19.59 °C	880.69 µS/cm	8.10 mg/L		32.5 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:54	00:30	7.70 pH	18.56 °C	850.64 µS/cm	8.57 mg/L		29.6 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:55	01:00	7.56 pH	17.85 °C	605.84 µS/cm	6.37 mg/L		7.2 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:55	01:30	7.55 pH	16.24 °C	585.06 µS/cm	3.47 mg/L		-1.2 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:56	02:00	7.54 pH	15.16 °C	587.35 µS/cm	2.52 mg/L		3.5 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:56	02:30	7.52 pH	14.46 °C	595.50 µS/cm	2.08 mg/L		8.2 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:57	03:00	7.49 pH	13.98 °C	597.39 µS/cm	1.96 mg/L		11.7 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:57	03:30	7.48 pH	13.66 °C	598.60 µS/cm	1.95 mg/L		12.7 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:58	04:00	7.46 pH	13.44 °C	599.53 µS/cm	1.96 mg/L		13.0 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:58	04:30	7.45 pH	13.31 °C	600.39 µS/cm	1.98 mg/L		12.9 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:59	05:00	7.45 pH	13.28 °C	600.43 µS/cm	2.00 mg/L		13.4 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:59	05:30	7.44 pH	13.27 °C	600.42 µS/cm	2.01 mg/L		13.5 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:00	06:00	7.43 pH	13.29 °C	599.60 µS/cm	2.01 mg/L		13.4 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:00	06:30	7.42 pH	13.30 °C	598.19 µS/cm	1.99 mg/L		13.5 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:01	07:00	7.42 pH	13.31 °C	598.27 µS/cm	1.99 mg/L		13.4 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:01	07:30	7.42 pH	13.31 °C	597.86 µS/cm	1.99 mg/L		13.3 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:02	08:00	7.41 pH	13.31 °C	597.05 µS/cm	1.99 mg/L		13.2 mV	298.00 cm	2,000.0 ml/min

21/08/2023 15:02	08:30	7.41 pH	13.31 °C	596.85 µS/cm	1.99 mg/L		13.1 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:03	09:00	7.40 pH	13.33 °C	596.13 µS/cm	2.00 mg/L		13.6 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:03	09:30	7.40 pH	13.35 °C	595.75 µS/cm	2.00 mg/L		13.4 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:04	10:00	7.40 pH	13.38 °C	595.10 µS/cm	2.01 mg/L		13.4 mV	298.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
BH243	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2023 2:52:47 PM
Project: GCRE 3
Operator Name: KW

Location Name: S2-BH244.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 5.5 m** **Top of Screen: 4.5 m** **Total Depth: 9.25 m** **Initial Depth to Water: 2.77 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 13000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Wet

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/21/2023 2:52 PM	00:00	7.63 pH	17.59 °C	603.87 µS/cm	3.42 mg/L		1,269.9 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:53 PM	00:30	7.56 pH	16.04 °C	623.44 µS/cm	2.09 mg/L		1,273.9 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:53 PM	01:00	7.36 pH	14.88 °C	636.05 µS/cm	1.91 mg/L		1,273.9 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:54 PM	01:30	7.24 pH	14.16 °C	637.93 µS/cm	1.93 mg/L		1,243.2 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:54 PM	02:00	7.10 pH	13.72 °C	636.20 µS/cm	1.86 mg/L		1,246.3 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:55 PM	02:30	6.97 pH	13.45 °C	632.28 µS/cm	1.80 mg/L		1,247.2 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:55 PM	03:00	6.96 pH	13.30 °C	626.31 µS/cm	1.70 mg/L		1,240.3 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:56 PM	03:30	6.76 pH	13.18 °C	626.65 µS/cm	1.63 mg/L		1,247.6 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:56 PM	04:00	6.65 pH	13.13 °C	625.19 µS/cm	1.63 mg/L		1,250.6 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:57 PM	04:30	6.47 pH	13.13 °C	624.99 µS/cm	1.66 mg/L		1,258.8 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:57 PM	05:00	6.46 pH	13.16 °C	628.07 µS/cm	1.70 mg/L		1,257.1 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:58 PM	05:30	6.40 pH	13.17 °C	633.58 µS/cm	1.73 mg/L		1,259.6 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:58 PM	06:00	6.36 pH	13.15 °C	637.57 µS/cm	1.76 mg/L		1,260.6 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:59 PM	06:30	6.30 pH	13.14 °C	641.58 µS/cm	1.79 mg/L		1,264.1 mV	277.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 8/21/2023 1:51:33 PM
Project: GCRE 3
Operator Name: KW

Location Name: S2-BH246.2 **Well Diameter: 5 cm** **Casing Type: Plastic** **Screen Length: 4.5 m** **Top of Screen: 3.5 m** **Total Depth: 7.87 m** **Initial Depth to Water: 2.96 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 14000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Wet

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/21/2023 1:51 PM	00:00	7.45 pH	17.22 °C	434.46 µS/cm	1.60 mg/L		1,315.7 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:52 PM	00:30	7.47 pH	16.55 °C	443.07 µS/cm	1.51 mg/L		1,311.6 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:52 PM	01:00	7.45 pH	16.07 °C	446.79 µS/cm	1.49 mg/L		1,300.6 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:53 PM	01:30	7.85 pH	15.81 °C	447.92 µS/cm	1.51 mg/L		1,260.3 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:53 PM	02:00	7.54 pH	15.65 °C	446.80 µS/cm	1.58 mg/L		1,270.3 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:54 PM	02:30	7.07 pH	15.55 °C	446.09 µS/cm	1.65 mg/L		1,282.2 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:54 PM	03:00	7.07 pH	15.48 °C	446.38 µS/cm	1.68 mg/L		1,281.5 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:55 PM	03:30	6.91 pH	15.46 °C	446.55 µS/cm	1.68 mg/L		1,285.8 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:55 PM	04:00	6.87 pH	15.44 °C	446.69 µS/cm	1.65 mg/L		1,286.2 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:56 PM	04:30	6.86 pH	15.41 °C	446.31 µS/cm	1.63 mg/L		1,285.4 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:56 PM	05:00	6.80 pH	15.39 °C	445.36 µS/cm	1.61 mg/L		1,287.7 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:57 PM	05:30	6.72 pH	15.36 °C	444.93 µS/cm	1.60 mg/L		1,294.4 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:57 PM	06:00	6.72 pH	15.35 °C	444.52 µS/cm	1.59 mg/L		1,290.9 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:58 PM	06:30	6.69 pH	15.33 °C	444.41 µS/cm	1.59 mg/L		1,290.4 mV	296.00 cm	2,000.0 ml/min

8/21/2023 1:58 PM	07:00	6.66 pH	15.33 °C	444.59 µS/cm	1.59 mg/L		1,291.4 mV	296.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW3	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 25/08/2023 11:09:29
Project: GCRE-S2-BH248
Operator Name:

Location Name: BH248 **Initial Depth to Water: 6 m**	**Estimated Total Volume Pumped: 23000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0.12 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
25/08/2023 11:09	00:00	7.58 pH	15.43 °C	798.89 µS/cm	7.52 mg/L		-78.4 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:09	00:30	7.37 pH	13.96 °C	904.10 µS/cm	2.55 mg/L		-70.1 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:10	01:00	7.32 pH	13.14 °C	912.46 µS/cm	1.06 mg/L		-65.1 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:10	01:30	7.32 pH	12.62 °C	914.58 µS/cm	0.54 mg/L		-60.2 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:11	02:00	7.31 pH	12.31 °C	926.65 µS/cm	0.39 mg/L		-54.6 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:11	02:30	7.32 pH	12.14 °C	939.24 µS/cm	0.40 mg/L		-50.2 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:12	03:00	7.33 pH	12.03 °C	948.06 µS/cm	0.52 mg/L		-46.2 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:12	03:30	7.33 pH	11.98 °C	954.41 µS/cm	0.70 mg/L		-42.2 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:13	04:00	7.33 pH	11.94 °C	958.66 µS/cm	0.90 mg/L		-39.2 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:13	04:30	7.33 pH	11.93 °C	961.07 µS/cm	1.09 mg/L		-37.2 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:14	05:00	7.33 pH	11.93 °C	962.72 µS/cm	1.23 mg/L		-35.4 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:14	05:30	7.33 pH	11.94 °C	963.25 µS/cm	1.34 mg/L		-34.2 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:15	06:00	7.33 pH	11.95 °C	963.20 µS/cm	1.43 mg/L		-33.3 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:15	06:30	7.33 pH	11.96 °C	963.57 µS/cm	1.49 mg/L		-32.5 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:16	07:00	7.33 pH	11.98 °C	963.58 µS/cm	1.54 mg/L		-31.9 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:16	07:30	7.33 pH	11.98 °C	963.94 µS/cm	1.58 mg/L		-31.1 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:17	08:00	7.33 pH	11.99 °C	964.22 µS/cm	1.61 mg/L		-30.5 mV	600.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
BH248	

Low-Flow Test Report:

Test Date / Time: 21/08/2023 13:55:39
Project: GCRE- BH249
Operator Name:

Location Name: BH249 **Initial Depth to Water: 3.69 m**	**Estimated Total Volume Pumped: 25000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0.34 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
21/08/2023 13:55	00:00	7.71 pH	23.11 °C	251.88 µS/cm	4.84 mg/L		33.7 mV	369.00 cm	2,000.0 ml/min
21/08/2023 13:56	00:30	7.29 pH	18.99 °C	840.05 µS/cm	2.93 mg/L		32.2 mV	369.00 cm	
21/08/2023 13:58	03:03	7.88 pH	18.12 °C	5.72 µS/cm	8.23 mg/L		17.2 mV	369.00 cm	
21/08/2023 13:59	03:33	7.90 pH	18.29 °C	9.71 µS/cm	8.29 mg/L		1.4 mV	369.00 cm	
21/08/2023 13:59	04:03	7.34 pH	15.67 °C	874.79 µS/cm	5.11 mg/L		21.9 mV	369.00 cm	
21/08/2023 14:00	04:33	7.22 pH	14.70 °C	885.22 µS/cm	2.96 mg/L		25.6 mV	369.00 cm	
21/08/2023 14:00	05:03	7.19 pH	14.07 °C	896.25 µS/cm	2.35 mg/L		26.3 mV	369.00 cm	
21/08/2023 14:01	05:33	7.17 pH	13.67 °C	900.24 µS/cm	2.16 mg/L		26.2 mV	369.00 cm	
21/08/2023 14:01	06:03	7.16 pH	13.43 °C	900.12 µS/cm	2.10 mg/L		26.0 mV	369.00 cm	
21/08/2023 14:02	06:33	7.16 pH	13.28 °C	902.80 µS/cm	2.07 mg/L		25.6 mV	369.00 cm	
21/08/2023 14:02	07:03	7.15 pH	13.18 °C	905.12 µS/cm	2.05 mg/L		25.6 mV	369.00 cm	
21/08/2023 14:03	07:33	7.15 pH	13.13 °C	905.05 µS/cm	2.02 mg/L		25.2 mV	369.00 cm	
21/08/2023 14:03	08:03	7.15 pH	13.08 °C	903.81 µS/cm	2.00 mg/L		25.0 mV	369.00 cm	
21/08/2023 14:04	08:33	7.14 pH	13.03 °C	902.18 µS/cm	1.97 mg/L		24.8 mV	369.00 cm	
21/08/2023 14:04	09:03	7.14 pH	12.98 °C	899.41 µS/cm	1.94 mg/L		24.4 mV	369.00 cm	
21/08/2023 14:05	09:33	7.14 pH	12.94 °C	897.60 µS/cm	1.92 mg/L		23.9 mV	369.00 cm	
21/08/2023 14:05	10:03	7.13 pH	12.94 °C	896.14 µS/cm	1.90 mg/L		23.5 mV	369.00 cm	

Samples

Sample ID:	Description:
BH249	

Low-Flow Test Report:

Test Date / Time: 24/08/2023 16:00:35
Project: GCRE-S2-BH250
Operator Name:

Location Name: BH250 **Initial Depth to Water: 3.21 m**	**Estimated Total Volume Pumped: 22000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0.36 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
24/08/2023 16:00	00:00	8.02 pH	19.94 °C	970.93 µS/cm	7.86 mg/L		5.7 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:01	00:30	7.57 pH	16.97 °C	602.60 µS/cm	5.22 mg/L		18.4 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:01	01:00	7.45 pH	15.09 °C	603.21 µS/cm	3.44 mg/L		20.4 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:02	01:30	7.43 pH	13.97 °C	609.44 µS/cm	3.00 mg/L		20.2 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:02	02:00	7.44 pH	13.34 °C	614.71 µS/cm	2.90 mg/L		19.5 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:03	02:30	7.46 pH	12.97 °C	616.74 µS/cm	2.92 mg/L		18.8 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:03	03:00	7.49 pH	12.76 °C	617.15 µS/cm	3.01 mg/L		18.0 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:04	03:30	7.51 pH	12.61 °C	618.26 µS/cm	3.11 mg/L		17.6 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:04	04:00	7.53 pH	12.51 °C	619.04 µS/cm	3.17 mg/L		17.1 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:05	04:30	7.53 pH	12.46 °C	618.74 µS/cm	3.18 mg/L		16.7 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:05	05:00	7.53 pH	12.41 °C	617.41 µS/cm	3.18 mg/L		16.3 mV	321.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
BH250	

Low-Flow Test Report:

Test Date / Time: 8/22/2023 1:54:36 PM
Project: GCRE 3
Operator Name: KW

Location Name: S2-BH252 **Well Diameter: 50 cm** **Total Depth: 9 m** **Initial Depth to Water: 4.5 m**	**Pump Type: Wasp** **Estimated Total Volume Pumped: 16000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877732**

Test Notes:

Weather Conditions:
Wet

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/22/2023 1:54 PM	00:00	8.00 pH	17.21 °C	426.78 µS/cm	6.03 mg/L		656.2 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:55 PM	00:30		15.69 °C	448.25 µS/cm	4.59 mg/L			450.00 cm	2,000.0 ml/min
8/22/2023 1:55 PM	01:00		14.38 °C	457.43 µS/cm	4.37 mg/L			450.00 cm	2,000.0 ml/min
8/22/2023 1:56 PM	01:30	7.48 pH	13.53 °C	461.00 µS/cm	4.37 mg/L		1,044.5 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:56 PM	02:00	7.34 pH	12.82 °C	461.24 µS/cm	4.42 mg/L		1,062.6 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:57 PM	02:30	7.22 pH	12.40 °C	455.99 µS/cm	4.49 mg/L		1,076.9 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:57 PM	03:00	7.12 pH	12.08 °C	447.14 µS/cm	4.56 mg/L		1,085.0 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:58 PM	03:30	7.05 pH	11.89 °C	434.72 µS/cm	4.64 mg/L		1,093.2 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:58 PM	04:00	6.94 pH	11.78 °C	427.21 µS/cm	4.74 mg/L		1,097.9 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:59 PM	04:30	6.82 pH	11.71 °C	428.78 µS/cm	4.80 mg/L		1,101.2 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:59 PM	05:00	6.73 pH	11.66 °C	437.60 µS/cm	4.80 mg/L		1,104.2 mV	450.00 cm	2,000.0 ml/min
8/22/2023 2:00 PM	05:30	6.70 pH	11.62 °C	446.99 µS/cm	4.76 mg/L		1,105.4 mV	450.00 cm	2,000.0 ml/min
8/22/2023 2:00 PM	06:00	6.67 pH	11.57 °C	456.06 µS/cm	4.71 mg/L		1,107.6 mV	450.00 cm	2,000.0 ml/min
8/22/2023 2:01 PM	06:30	6.63 pH	11.52 °C	461.87 µS/cm	4.63 mg/L		1,110.4 mV	450.00 cm	2,000.0 ml/min
8/22/2023 2:01 PM	07:00	6.62 pH	11.49 °C	464.00 µS/cm	4.59 mg/L		1,111.1 mV	450.00 cm	2,000.0 ml/min

8/22/2023 2:02 PM	07:30	6.58 pH	11.48 °C	462.17 µS/cm	4.55 mg/L		1,114.7 mV	450.00 cm	2,000.0 ml/min
8/22/2023 2:02 PM	08:00	6.56 pH	11.45 °C	459.07 µS/cm	4.53 mg/L		1,117.1 mV	450.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW3	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 22/08/2023 13:00:54
Project: GCRE- S2-BH261
Operator Name:

Location Name: BH261 **Initial Depth to Water: 9.56 m**	**Estimated Total Volume Pumped: 32000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2000 ml/min** **Final Draw Down: 0.12 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1029035**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
22/08/2023 13:00	00:00	7.73 pH	20.64 °C	559.43 µS/cm	6.76 mg/L		23.3 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:01	00:30	7.64 pH	18.03 °C	501.49 µS/cm	4.75 mg/L		22.3 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:01	01:00	7.45 pH	16.84 °C	470.94 µS/cm	4.12 mg/L		24.0 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:02	01:30	7.36 pH	15.82 °C	466.61 µS/cm	3.86 mg/L		24.5 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:02	02:00	7.33 pH	15.31 °C	483.04 µS/cm	3.77 mg/L		24.2 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:03	02:30	7.27 pH	15.05 °C	458.83 µS/cm	3.84 mg/L		24.7 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:03	03:00	7.33 pH	15.21 °C	475.95 µS/cm	4.46 mg/L		23.5 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:04	03:30	7.26 pH	14.89 °C	458.08 µS/cm	4.85 mg/L		24.2 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:04	04:00	7.22 pH	14.80 °C	457.25 µS/cm	4.75 mg/L		24.7 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:05	04:30	7.23 pH	14.73 °C	472.98 µS/cm	4.69 mg/L		24.2 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:05	05:00	7.21 pH	14.67 °C	458.58 µS/cm	4.67 mg/L		24.3 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:06	05:30	7.19 pH	14.66 °C	457.73 µS/cm	4.64 mg/L		24.4 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:06	06:00	7.18 pH	14.63 °C	457.56 µS/cm	4.59 mg/L		24.3 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:07	06:30	7.18 pH	14.62 °C	457.40 µS/cm	4.56 mg/L		24.5 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:07	07:00	7.17 pH	14.61 °C	457.56 µS/cm	4.50 mg/L		24.3 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:08	07:30	7.17 pH	14.61 °C	457.36 µS/cm	4.41 mg/L		24.2 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:08	08:00	7.16 pH	14.61 °C	457.04 µS/cm	4.33 mg/L		24.1 mV	956.00 cm	2,000.0 ml/min

22/08/2023 13:09	08:30	7.16 pH	14.61 °C	454.49 µS/cm	4.26 mg/L		23.8 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:09	09:00	7.16 pH	14.61 °C	456.54 µS/cm	4.20 mg/L		23.9 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:10	09:30	7.16 pH	14.60 °C	456.38 µS/cm	4.12 mg/L		23.8 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:10	10:00	7.16 pH	14.60 °C	456.65 µS/cm	4.07 mg/L		23.6 mV	956.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
BH261	

Created using VuSitu from In-Situ, Inc.

Appendix IV

Geoenvironmental Testing

Eurofins Chemtest

23-21883, 23-22078, 23-22244, 23-22484, 23-23194, 23-23250, 23-25140, 23-25140, 23-25292, 23-25489, 23-25593, 23-25755, 23-26215, 23-26298, 23-28320, 23-28452, 23-29018, 23-29077, 23-29496, 23-29817

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Email: info@chemtest.com

UKAS TESTING
2183

Final Report

Report No.:	23-21883-1
Initial Date of Issue:	04-Jul-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt
Project	G23012C GCRE Montoring
Quotation No.:	Q22-29781
Date Received:	28-Jun-2023
Order No.:	
Date Instructed:	28-Jun-2023
No. of Samples:	2
Turnaround (Wkdays):	5
Results Due:	04-Jul-2023
Date Approved:	04-Jul-2023
Approved By:	



Details:	Stuart Henderson, Technical Manager

Results - Water

Project: G23012C GCRE Montoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-21883	23-21883
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1665337	1665338
Order No.:			Client Sample Ref.:		14	11
			Client Sample ID.:		#2340287618490014	#5560009314460011
			Sample Location:		S2-BH244	S2-BH246
			Sample Type:		WATER	WATER
			Top Depth (m):		9.38	7.87
			Date Sampled:		26-Jun-2023	26-Jun-2023
			Time Sampled:		15:12	14:12
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
pH	U	1010		N/A	6.5	6.8
Sulphate	U	1220	mg/l	1.0	260	100
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	52	59
Total Hardness as CaCO3	U	1270	mg/l	15	310	290
Arsenic (Dissolved)	U	1455	µg/l	0.20	< 0.20	< 0.20
Boron (Dissolved)	U	1455	µg/l	10.0	17	16
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50	36
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	10000	59
Nickel (Dissolved)	U	1455	µg/l	0.50	42	1.8
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	0.62	1.0
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	9.5	10
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	0.91	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10

Results - Water

Project: G23012C GCRE Montoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-21883	23-21883
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1665337	1665338
Order No.:			Client Sample Ref.:		14	11
			Client Sample ID.:		#2340287618490014	#5560009314460011
			Sample Location:		S2-BH244	S2-BH246
			Sample Type:		WATER	WATER
			Top Depth (m):		9.38	7.87
			Date Sampled:		26-Jun-2023	26-Jun-2023
			Time Sampled:		15:12	14:12
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-22078-1
Initial Date of Issue:	04-Jul-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt
Project	GCRE Montoring
Quotation No.:	Q22-29781
Order No.:	G230012C
No. of Samples:	7
Turnaround (Wkdays):	5
Date Approved:	04-Jul-2023
Approved By:	
Details:	Stuart Henderson, Technical Manager

Date Received:	29-Jun-2023
Date Instructed:	29-Jun-2023
Results Due:	05-Jul-2023

Results - Water

Project: GCRE Montoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-22078	23-22078	23-22078	23-22078	23-22078	23-22078	23-22078
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1666133	1666134	1666135	1666136	1666137	1666138	1666139
Order No.: G230012C			Client Sample Ref.:		12	11	11	15	13	14	18
			Client Sample ID.:		#66261311790 90012	#66261311790 90011	#06312021895 40011	#70721805594 10015	#55116547576 60013	#19508717776 90014	#48124953288 50018
			Sample Location:		S2-BH239	S2-BH239	S2-BH240	S2-BH242	S2-BH243	S2-BH249	S2-BH252
			Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER	WATER
			Top Depth (m):		3.60	7.60	5.16	3.74	5.88	7.65	8.63
			Date Sampled:		27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023
			Time Sampled:		10:22	9:45	10:50	11:13	9:04	9:23	14:41
Determinand	**Accred.**	**SOP**	**Units**	**LOD**							
pH	U	1010		N/A	7.7	7.7	8.1	7.9	7.4	7.1	7.3
Sulphate	U	1220	mg/l	1.0	120	120	110	70	110	420	37
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	76	75	75	68	40	96	42
Total Hardness as CaCO3	U	1270	mg/l	15	340	320	290	290	240	550	210
Arsenic (Dissolved)	U	1455	µg/l	0.20	1.4	0.51	2.0	0.43	< 0.20	< 0.20	< 0.20
Boron (Dissolved)	U	1455	µg/l	10.0	130	120	93	74	38	32	32
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11	0.20	< 0.11	0.55	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	2.4	0.94	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	10	< 0.50	< 0.50	2.6	0.81	2.7	1.1
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	450	420	470	3300	2900	9800	110
Nickel (Dissolved)	U	1455	µg/l	0.50	8.0	6.1	3.5	14	6.7	26	5.3
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.3
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	43	8.0	2.6	15	12	21	11
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	< 2.0	< 2.0	< 2.0	2.7	< 2.0	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: GCRE Montoring

Client: Jackson Geo Services					**Chemtest Job No.:**	23-22078	23-22078	23-22078	23-22078	23-22078	23-22078
Quotation No.: Q22-29781					**Chemtest Sample ID.:**	1666133	1666134	1666135	1666136	1666137	1666138	1666139
Order No.: G230012C					Client Sample Ref.:	12	11	11	15	13	14	18
					Client Sample ID.:	#6626131179090012	#6626131179090011	#0631202189540011	#7072180559410015	#5511654757660013	#1950871777690014	#4812495328850018
					Sample Location:	S2-BH239	S2-BH239	S2-BH240	S2-BH242	S2-BH243	S2-BH249	S2-BH252
					Sample Type:	WATER	WATER	WATER	WATER	WATER	WATER	WATER
					Top Depth (m):	3.60	7.60	5.16	3.74	5.88	7.65	8.63
					Date Sampled:	27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023
					Time Sampled:	10:22	9:45	10:50	11:13	9:04	9:23	14:41
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
Total Of 16 PAH's	U	1800	µg/l	2.0		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030		< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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Final Report

Report No.:	23-22244-1
Initial Date of Issue:	06-Jul-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt
Project	G23012C, GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	2
Turnaround (Wkdays):	5
Date Approved:	06-Jul-2023
Approved By:	

Date Received:	30-Jun-2023
Date Instructed:	30-Jun-2023
Results Due:	06-Jul-2023



Details: Stuart Henderson, Technical Manager

Results - Water

Project: G23012C, GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-22244	23-22244
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1666732	1666733
Order No.:			Client Sample Ref.:		1	1
			Client Sample ID.:		#19517118027 10001	#81604485577 60001
			Sample Location:		S2-BH248	S2-BH250
			Sample Type:		WATER	WATER
			Date Sampled:		28-Jun-2023	28-Jun-2023
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
pH	U	1010		N/A	6.9	7.2
Sulphate	U	1220	mg/l	1.0	220	73
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	93	42
Total Hardness as CaCO3	U	1270	mg/l	15	560	230
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.63	0.29
Boron (Dissolved)	U	1455	µg/l	10.0	48	33
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	230	2.0
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	2700	15
Nickel (Dissolved)	U	1455	µg/l	0.50	13	2.0
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	1.4	2.0
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	110	2.5
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	4.5	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
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Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0
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Final Report

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Initial Date of Issue:	06-Jul-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt
Project	G23012C, GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	2
Turnaround (Wkdays):	5
Date Approved:	06-Jul-2023
Approved By:	

Date Received:	30-Jun-2023
Date Instructed:	30-Jun-2023
Results Due:	06-Jul-2023



Details: Stuart Henderson, Technical Manager

Results - Water

Project: G23012C, GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-22244	23-22244
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1666732	1666733
Order No.:			Client Sample Ref.:		1	1
			Client Sample ID.:		#19517118027 10001	#81604485577 60001
			Sample Location:		S2-BH248	S2-BH250
			Sample Type:		WATER	WATER
			Date Sampled:		28-Jun-2023	28-Jun-2023
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
pH	U	1010		N/A	6.9	7.2
Sulphate	U	1220	mg/l	1.0	220	73
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	93	42
Total Hardness as CaCO3	U	1270	mg/l	15	560	230
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.63	0.29
Boron (Dissolved)	U	1455	µg/l	10.0	48	33
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	230	2.0
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	2700	15
Nickel (Dissolved)	U	1455	µg/l	0.50	13	2.0
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	1.4	2.0
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	110	2.5
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	4.5	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

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SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
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I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

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None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
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Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

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eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-23194-1
Initial Date of Issue:	14-Jul-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Montoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	1
Turnaround (Wkdays):	5
Date Approved:	14-Jul-2023
Approved By:	

Date Received:	07-Jul-2023
Date Instructed:	07-Jul-2023
Results Due:	13-Jul-2023



Details: Stuart Henderson, Technical Manager

Results - Water

Project: G23012C GCRE Montoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-23194
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1671236
Order No.:			Client Sample Ref.:		1
			Client Sample ID.:		#4796955480600001
			Sample Location:		S2-BH225
			Sample Type:		WATER
			Top Depth (m):		5.89
			Date Sampled:		06-Jul-2023
			Time Sampled:		13:00
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
pH	U	1010		N/A	7.4
Sulphate	U	1220	mg/l	1.0	23
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	18
Total Hardness as CaCO3	U	1270	mg/l	15	79
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.29
Boron (Dissolved)	U	1455	µg/l	10.0	16
Cadmium (Dissolved)	U	1455	µg/l	0.11	0.19
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	9900
Nickel (Dissolved)	U	1455	µg/l	0.50	6.6
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	6.3
Chromium (Hexavalent)	U	1490	µg/l	20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10

Results - Water

Project: G23012C GCRE Montoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-23194
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1671236
Order No.:			Client Sample Ref.:		1
			Client Sample ID.:		#4796955480600001
			Sample Location:		S2-BH225
			Sample Type:		WATER
			Top Depth (m):		5.89
			Date Sampled:		06-Jul-2023
			Time Sampled:		13:00
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

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I/S	Insufficient Sample
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All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
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If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

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Final Report

Report No.:	23-23250-1
Initial Date of Issue:	14-Jul-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	1
Turnaround (Wkdays):	5
Date Approved:	14-Jul-2023
Approved By:	

Date Received:	10-Jul-2023
Date Instructed:	10-Jul-2023
Results Due:	14-Jul-2023



Details: Stuart Henderson, Technical Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-23250
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1671563
Order No.:			Client Sample Ref.:		1
			Client Sample ID.:		#19108113375 90001
			Sample Location:		S2-BH217
			Sample Type:		WATER
			Top Depth (m):		29.55
			Date Sampled:		06-Jul-2023
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
pH	U	1010		N/A	7.7
Sulphate	U	1220	mg/l	1.0	30
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	68
Total Hardness as CaCO3	U	1270	mg/l	15	220
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.47
Boron (Dissolved)	U	1455	µg/l	10.0	69
Cadmium (Dissolved)	U	1455	µg/l	0.11	0.81
Chromium (Dissolved)	U	1455	µg/l	0.50	0.55
Copper (Dissolved)	U	1455	µg/l	0.50	0.75
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	3800
Nickel (Dissolved)	U	1455	µg/l	0.50	3.1
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	1.5
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	3.8
Chromium (Hexavalent)	U	1490	µg/l	20	[B] < 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-23250
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1671563
Order No.:			Client Sample Ref.:		1
			Client Sample ID.:		#19108113375 90001
			Sample Location:		S2-BH217
			Sample Type:		WATER
			Top Depth (m):		29.55
			Date Sampled:		06-Jul-2023
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
Total Phenols	U	1920	mg/l	0.030	< 0.030

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request.The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1671563	1	#1910811337590001	S2-BH217	06-Jul-2023	B	Coloured Winchester 1000ml
1671563	1	#1910811337590001	S2-BH217	06-Jul-2023	B	EPA Vial 40ml
1671563	1	#1910811337590001	S2-BH217	06-Jul-2023	B	Plastic Bottle 1000ml

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-25140-1
Initial Date of Issue:	01-Aug-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	3
Turnaround (Wkdays):	5
Date Approved:	01-Aug-2023
Approved By:	

Date Received:	26-Jul-2023
Date Instructed:	26-Jul-2023
Results Due:	01-Aug-2023



Details: Stuart Henderson, Technical Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-25140	23-25140	23-25140
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1679297	1679298	1679299
Order No.:			Client Sample Ref.:		2	2	15
			Client Sample ID.:		#8813621550230002	#0348998811250002	#2862882368660002
			Sample Location:		S2-BH244	S2-BH246	S2-BH249
			Sample Type:		WATER	WATER	WATER
			Top Depth (m):		9.25	7.86	7.70
			Date Sampled:		24-Jul-2023	24-Jul-2023	24-Jul-2023
			Time Sampled:		11:56	14:43	15:01
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
pH	U	1010		N/A	7.7	7.5	7.5
Sulphate	U	1220	mg/l	1.0	130	160	250
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	59	74	96
Total Hardness as CaCO3	U	1270	mg/l	15	320	380	480
Arsenic (Dissolved)	U	1455	µg/l	0.20	< 0.20	0.21	< 0.20
Boron (Dissolved)	U	1455	µg/l	10.0	24	32	30
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11	0.17
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	1.1	0.78	0.59
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	1500	34	120
Nickel (Dissolved)	U	1455	µg/l	0.50	7.2	2.2	3.9
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	3.3	5.9	5.7
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	16	21	25
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	3.5	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-25140	23-25140	23-25140
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1679297	1679298	1679299
Order No.:			Client Sample Ref.:		2	2	15
			Client Sample ID.:		#8813621550230002	#0348998811250002	#2862882368660002
			Sample Location:		S2-BH244	S2-BH246	S2-BH249
			Sample Type:		WATER	WATER	WATER
			Top Depth (m):		9.25	7.86	7.70
			Date Sampled:		24-Jul-2023	24-Jul-2023	24-Jul-2023
			Time Sampled:		11:56	14:43	15:01
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-25292-1
Initial Date of Issue:	02-Aug-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	8
Turnaround (Wkdays):	5
Date Approved:	02-Aug-2023
Approved By:	

Date Received:	27-Jul-2023
Date Instructed:	27-Jul-2023
Results Due:	02-Aug-2023



Details: Stuart Henderson, Technical Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-25292	23-25292	23-25292	23-25292	23-25292	23-25292	23-25292	23-25292
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1679912	1679913	1679914	1679915	1679916	1679917	1679918	1679919
Order No.:			Client Sample Ref.:		EW	EW	EW	EW	EW	EW	EW	EW
			Client Sample ID.:		4	3	2	2	2	2	2	1
			Sample Location:		S2-BH239	S2-BH239	S2-BH240	S2-BH242	S2-BH243	S2-BH248	S2-BH252	S2-BH261
			Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
			Top Depth (m):		3.70	7.80	5.38	3.79	5.93	9.26	8.87	7.70
			Date Sampled:		25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023
			Time Sampled:		12:38	12:08	10:04	10:44	9:41	15:11	12:40	16:41
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
pH	U	1010		N/A	7.3	7.4	7.7	7.3	7.2	6.9	7.2	7.1
Sulphate	U	1220	mg/l	1.0	320	310	410	74	100	150	43	130
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	110	110	150	56	61	54	35	38
Total Hardness as CaCO3	U	1270	mg/l	15	530	550	600	250	260	380	170	190
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.55	0.71	0.70	0.34	< 0.20	0.44	0.23	< 0.20
Boron (Dissolved)	U	1455	µg/l	10.0	150	140	150	140	68	65	54	52
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11	0.29	< 0.11	< 0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	2.9	0.81	0.55	1.8	2.1
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	150	210	1300	4200	780	5300	39	3.6
Nickel (Dissolved)	U	1455	µg/l	0.50	18	19	25	30	4.0	17	2.7	4.2
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	1.3	1.3	< 0.50	0.85	3.2	< 0.50	1.9	5.8
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	5.8	7.7	15	13	12	14	10	16
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	2.3	< 2.0	2.1	4.9	2.5	2.3	2.2	2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-25292	23-25292	23-25292	23-25292	23-25292	23-25292	23-25292	23-25292
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1679912	1679913	1679914	1679915	1679916	1679917	1679918	1679919
Order No.:			Client Sample Ref.:		EW	EW	EW	EW	EW	EW	EW	EW
			Client Sample ID.:		4	3	2	2	2	2	2	1
			Sample Location:		S2-BH239	S2-BH239	S2-BH240	S2-BH242	S2-BH243	S2-BH248	S2-BH252	S2-BH261
			Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
			Top Depth (m):		3.70	7.80	5.38	3.79	5.93	9.26	8.87	7.70
			Date Sampled:		25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023
			Time Sampled:		12:38	12:08	10:04	10:44	9:41	15:11	12:40	16:41
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

U	UKAS accredited
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U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
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All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

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A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

UKAS TESTING
2183

eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-25489-1
Initial Date of Issue:	03-Aug-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	4
Turnaround (Wkdays):	5
Date Approved:	03-Aug-2023
Approved By:	

Date Received:	28-Jul-2023
Date Instructed:	28-Jul-2023
Results Due:	03-Aug-2023



Details: Stuart Henderson, Technical Manager

Results - Water

Project: G23012C

Client: Jackson Geo Services			**Chemtest Job No.:**		23-25489	23-25489	23-25489	23-25489
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1680564	1680565	1680566	1680567
Order No.:			Client Sample Ref.:		2	2	2	2
			Client Sample ID.:		#0692623695680002	#0512072751530002	#8894485281250002	#7355426455540002
			Sample Location:		S2-BH227	S2-BH237	S2-BH250	S2-BH261
			Sample Type:		WATER	WATER	WATER	WATER
			Top Depth (m):		14.50	25.50	9.30	14.08
			Date Sampled:		26-Jul-2023	26-Jul-2023	26-Jul-2023	26-Jul-2023
			Time Sampled:		12:18	15:02	10:48	11:27
Determinand	**Accred.**	**SOP**	**Units**	**LOD**				
pH	U	1010		N/A	7.9	5.0	8.1	8.2
Sulphate	U	1220	mg/l	1.0	6.7	170	72	140
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	17	30	64	38
Total Hardness as CaCO3	U	1270	mg/l	15	120	180	310	190
Arsenic (Dissolved)	U	1455	µg/l	0.20	< 0.20	0.34	< 0.20	0.20
Boron (Dissolved)	U	1455	µg/l	10.0	25	22	33	24
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	0.34	< 0.11	0.15
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50	4.5	< 0.50	1.4
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	3200	3300	29	3200
Nickel (Dissolved)	U	1455	µg/l	0.50	5.1	75	3.1	20
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	3.6	5.6
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	16	180	7.6	24
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	< 2.0	3.3	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: G23012C

Client: Jackson Geo Services			**Chemtest Job No.:**		23-25489	23-25489	23-25489	23-25489
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1680564	1680565	1680566	1680567
Order No.:			Client Sample Ref.:		2	2	2	2
			Client Sample ID.:		#0692623695680002	#0512072751530002	#8894485281250002	#7355426455540002
			Sample Location:		S2-BH227	S2-BH237	S2-BH250	S2-BH261
			Sample Type:		WATER	WATER	WATER	WATER
			Top Depth (m):		14.50	25.50	9.30	14.08
			Date Sampled:		26-Jul-2023	26-Jul-2023	26-Jul-2023	26-Jul-2023
			Time Sampled:		12:18	15:02	10:48	11:27
Determinand	**Accred.**	**SOP**	**Units**	**LOD**				
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-25593-1
Initial Date of Issue:	03-Aug-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	4
Turnaround (Wkdays):	5
Date Approved:	03-Aug-2023
Approved By:	

Date Received:	31-Jul-2023
Date Instructed:	31-Jul-2023
Results Due:	04-Aug-2023



Details: Stuart Henderson, Technical Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-25593	23-25593	23-25593	23-25593
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1680972	1680973	1680974	1680975
			Client Sample ID.:		2	4	3	2
			Sample Location:		S1-BH118	S1-BH119	S1-BH119	S1-BH120
			Sample Type:		WATER	WATER	WATER	WATER
			Top Depth (m):		14.97	4.00	15.00	20.54
			Date Sampled:		27-Jul-2023	27-Jul-2023	27-Jul-2023	27-Jul-2023
			Time Sampled:		11:06	11:38	11:07	15:20
Determinand	**Accred.**	**SOP**	**Units**	**LOD**				
pH	U	1010		N/A	7.8	7.3	7.7	7.7
Sulphate	U	1220	mg/l	1.0	26	130	13	1.7
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	51	24	32	22
Total Hardness as CaCO3	U	1270	mg/l	15	180	190	150	110
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.53	0.53	0.48	0.22
Boron (Dissolved)	U	1455	µg/l	10.0	20	23	46	37
Cadmium (Dissolved)	U	1455	µg/l	0.11	0.29	0.17	0.13	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	1.5	1.1	0.56	< 0.50
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	3200	8000	590	710
Nickel (Dissolved)	U	1455	µg/l	0.50	17	53	16	1.8
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	1.1	1.2	1.2	0.78
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	14	28	14	5.6
Chromium (Hexavalent)	U	1490	µg/l	20	[B] < 20	[B] < 20	[B] < 20	[B] < 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	3.2	2.5	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request.The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1680972		2	S1-BH118	27-Jul-2023	B	Coloured Winchester 1000ml
1680972		2	S1-BH118	27-Jul-2023	B	EPA Vial 40ml
1680972		2	S1-BH118	27-Jul-2023	B	Plastic Bottle 1000ml
1680973		4	S1-BH119	27-Jul-2023	B	Coloured Winchester 1000ml
1680973		4	S1-BH119	27-Jul-2023	B	EPA Vial 40ml
1680973		4	S1-BH119	27-Jul-2023	B	Plastic Bottle 1000ml
1680974		3	S1-BH119	27-Jul-2023	B	Coloured Winchester 1000ml
1680974		3	S1-BH119	27-Jul-2023	B	EPA Vial 40ml
1680974		3	S1-BH119	27-Jul-2023	B	Plastic Bottle 1000ml
1680975		2	S1-BH120	27-Jul-2023	B	Coloured Winchester 1000ml
1680975		2	S1-BH120	27-Jul-2023	B	EPA Vial 40ml
1680975		2	S1-BH120	27-Jul-2023	B	Plastic Bottle 1000ml

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

U	UKAS accredited
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S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-25755-1
Initial Date of Issue:	08-Aug-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	2
Turnaround (Wkdays):	5
Date Approved:	08-Aug-2023
Approved By:	

Date Received:	01-Aug-2023
Date Instructed:	02-Aug-2023
Results Due:	08-Aug-2023



Details: Stuart Henderson, Technical Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-25755	23-25755
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1681850	1681851
Order No.:			Client Sample Ref.:		EW	EW
			Client Sample ID.:		2	3
			Sample Location:		S2-BH217	S2-BH227
			Sample Type:		WATER	WATER
			Top Depth (m):		29.96	5.00
			Date Sampled:		28-Jul-2023	28-Jul-2023
			Time Sampled:		11:09	12:50
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
pH	U	1010		N/A	7.3	7.2
Sulphate	U	1220	mg/l	1.0	30	45
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	67	26
Total Hardness as CaCO3	U	1270	mg/l	15	220	130
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.54	0.44
Boron (Dissolved)	U	1455	µg/l	10.0	41	13
Cadmium (Dissolved)	U	1455	µg/l	0.11	2.5	0.19
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50	4.6
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	3700	830
Nickel (Dissolved)	U	1455	µg/l	0.50	2.4	4.6
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	0.80
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	< 2.5	33
Chromium (Hexavalent)	U	1490	µg/l	20	[B] < 20	[B] < 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	2.3	3.8
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-25755	23-25755
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1681850	1681851
Order No.:			Client Sample Ref.:		EW	EW
			Client Sample ID.:		2	3
			Sample Location:		S2-BH217	S2-BH227
			Sample Type:		WATER	WATER
			Top Depth (m):		29.96	5.00
			Date Sampled:		28-Jul-2023	28-Jul-2023
			Time Sampled:		11:09	12:50
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request.The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1681850	EW	2	S2-BH217	28-Jul-2023	B	Coloured Winchester 1000ml
1681850	EW	2	S2-BH217	28-Jul-2023	B	EPA Vial 40ml
1681850	EW	2	S2-BH217	28-Jul-2023	B	Plastic Bottle 1000ml
1681851	EW	3	S2-BH227	28-Jul-2023	B	Coloured Winchester 1000ml
1681851	EW	3	S2-BH227	28-Jul-2023	B	EPA Vial 40ml

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

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U	UKAS accredited
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S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

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A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

UKAS TESTING
2183

Final Report

Report No.:	23-26215-1
Initial Date of Issue:	08-Aug-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	2
Turnaround (Wkdays):	5
Date Approved:	08-Aug-2023
Approved By:	
Details:	Stuart Henderson, Technical Manager

Date Received:	03-Aug-2023
Date Instructed:	04-Aug-2023
Results Due:	10-Aug-2023

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-26215	23-26215
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1683492	1683493
Order No.:			Client Sample Ref.:		EW	EW
			Client Sample ID.:		1	2
			Sample Location:		S2-BH222	S2-BH232
			Sample Type:		WATER	WATER
			Top Depth (m):		24.71	6.95
			Date Sampled:		01-Aug-2023	01-Aug-2023
			Time Sampled:		14:50	13:18
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
pH	U	1010		N/A	7.9	7.3
Sulphate	U	1220	mg/l	1.0	30	4.4
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	23	17
Total Hardness as CaCO3	U	1270	mg/l	15	120	130
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.68	0.31
Boron (Dissolved)	U	1455	µg/l	10.0	39	25
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	5.3	< 0.50
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	240	2400
Nickel (Dissolved)	U	1455	µg/l	0.50	12	7.3
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	25	22
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	6.9	3.6
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-26215	23-26215
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1683492	1683493
Order No.:			Client Sample Ref.:		EW	EW
			Client Sample ID.:		1	2
			Sample Location:		S2-BH222	S2-BH232
			Sample Type:		WATER	WATER
			Top Depth (m):		24.71	6.95
			Date Sampled:		01-Aug-2023	01-Aug-2023
			Time Sampled:		14:50	13:18
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

U	UKAS accredited
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N	Unaccredited
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I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

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D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

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All water samples will be retained for 14 days from the date of receipt
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Newmarket
CB8 0AL
Tel: 01638 606070
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UKAS TESTING
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Amended Report

Report No.:	23-26298-4		
Initial Date of Issue:	10-Aug-2023	**Date of Re-Issue:**	10-Aug-2023
Re-Issue Details:	This report has been revised and directly supersedes 23-26298-3 in its entirety		
Client	Jackson Geo Services		
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA		
Contact(s):	Adam Putt James Power		
Project	G23012C GCRE Monitoring		
Quotation No.:	Q22-29781	**Date Received:**	04-Aug-2023
Order No.:		**Date Instructed:**	04-Aug-2023
No. of Samples:	2		
Turnaround (Wkdays):	5	**Results Due:**	10-Aug-2023
Date Approved:	10-Aug-2023		
Approved By:			
Details:	Stuart Henderson, Technical Manager		

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services		**Chemtest Job No.:**			23-26298	23-26298
Quotation No.: Q22-29781		**Chemtest Sample ID.:**			1683770	1683771
Order No.:		Client Sample Ref.:			EW	EW
		Client Sample ID.:			2	1
		Sample Location:			S2-BH225	S2-BH229
		Sample Type:			WATER	WATER
		Top Depth (m):			5.93	14.83
		Date Sampled:			02-Aug-2023	02-Aug-2023
		Time Sampled:			14:12	12:54
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
pH	U	1010		N/A	7.7	7.3
Sulphate	U	1220	mg/l	1.0	9.7	58
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	17	95
Total Hardness as CaCO3	U	1270	mg/l	15	73	410
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.33	0.62
Boron (Dissolved)	U	1455	µg/l	10.0	14	20
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50	2.3
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	8100	440
Nickel (Dissolved)	U	1455	µg/l	0.50	6.2	4.2
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	0.72
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	31	47
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	2.1	2.9
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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Eurofins Chemtest Ltd
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Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-28320-1
Initial Date of Issue:	30-Aug-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Montoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	4
Turnaround (Wkdays):	5
Date Approved:	30-Aug-2023
Approved By:	
Details:	Stuart Henderson, Technical Manager

Date Received:	23-Aug-2023
Date Instructed:	23-Aug-2023
Results Due:	30-Aug-2023

Results - Water

Project: G23012C GCRE Montoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-28320	23-28320	23-28320	23-28320
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1692450	1692451	1692452	1692453
Order No.:			Client Sample Ref.:		3	2	3	3
			Client Sample ID.:		#3427982154960003	#4673518666370002	#7412367266320003	#1736393739340003
			Sample Location:		S2-BH243	S2-BH244	S2-BH246	S2-BH249
			Sample Type:		WATER	WATER	WATER	WATER
			Top Depth (m):		2.98	9.44	8.01	3.69
			Bottom Depth (m):		5.86			7.49
			Date Sampled:		21-Aug-2023	21-Aug-2023	21-Aug-2023	21-Aug-2023
			Time Sampled:		15:11	15:09	14:11	14:10
Determinand	**Accred.**	**SOP**	**Units**	**LOD**				
pH	U	1010		N/A	8.2	7.8	7.9	7.6
Sulphate	U	1220	mg/l	1.0	86	120	56	250
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	64	53	47	91
Total Hardness as CaCO3	U	1270	mg/l	15	280	300	200	470
Arsenic (Dissolved)	U	1455	µg/l	0.20	< 0.20	< 0.20	< 0.20	< 0.20
Boron (Dissolved)	U	1455	µg/l	10.0	34	26	21	30
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	140	340	27	63
Nickel (Dissolved)	U	1455	µg/l	0.50	1.8	2.4	< 0.50	2.1
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	4.4	2.4	1.8	3.5
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	5.0	3.5	5.9	13
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	2.3	2.4	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: G23012C GCRE Montoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-28320	23-28320	23-28320	23-28320
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1692450	1692451	1692452	1692453
Order No.:			Client Sample Ref.:		3	2	3	3
			Client Sample ID.:		#3427982154960003	#4673518666370002	#7412367266320003	#1736393739340003
			Sample Location:		S2-BH243	S2-BH244	S2-BH246	S2-BH249
			Sample Type:		WATER	WATER	WATER	WATER
			Top Depth (m):		2.98	9.44	8.01	3.69
			Bottom Depth (m):		5.86			7.49
			Date Sampled:		21-Aug-2023	21-Aug-2023	21-Aug-2023	21-Aug-2023
			Time Sampled:		15:11	15:09	14:11	14:10
Determinand	**Accred.**	**SOP**	**Units**	**LOD**				
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

U	UKAS accredited
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I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

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None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
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Sample Deviation Codes

A - Date of sampling not supplied
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D - Broken Container
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Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
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Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-28452-1
Initial Date of Issue:	31-Aug-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	6
Turnaround (Wkdays):	5
Date Approved:	31-Aug-2023
Approved By:	

Date Received:	24-Aug-2023
Date Instructed:	24-Aug-2023
Results Due:	31-Aug-2023



Details: Stuart Henderson, Technical Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-28452	23-28452	23-28452	23-28452	23-28452	23-28452
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1692991	1692992	1692993	1692994	1692995	1692996
			Client Sample ID.:		3	3	3	6	3	5
			Sample Location:		S2-BH242	S2-BH252	S2-BH261	S2-BH239	S2-BH240	S2-BH239
			Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER
			Top Depth (m):		3.77	9.00	14.81	1.92	1.51	1.37
			Date Sampled:		22-Aug-2023	22-Aug-2023	22-Aug-2023	22-Aug-2023	22-Aug-2023	22-Aug-2023
Determinand	**Accred.**	**SOP**	**Units**	**LOD**						
pH	U	1010		N/A	8.5	8.5	8.3	8.2	8.3	8.3
Sulphate	U	1220	mg/l	1.0	80	38	110	230	270	220
Cyanide (Total)	U	1300	mg/l	0.050	0.060	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	49	43	37	83	110	83
Total Hardness as CaCO3	U	1270	mg/l	15	220	200	180	440	450	430
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.56	< 0.20	< 0.20	< 0.20	0.32	0.22
Boron (Dissolved)	U	1455	µg/l	10.0	64	< 10	< 10	58	81	60
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50	1.1	1.3	< 0.50	< 0.50	< 0.50
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	2800	100	5.9	280	940	300
Nickel (Dissolved)	U	1455	µg/l	0.50	20	0.85	1.9	13	2.6	13
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	1.2	3.4	< 0.50	< 0.50	0.74
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	6.9	3.9	< 2.5	8.1	2.8	5.1
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20	< 20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	3.2	2.2	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030

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1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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customerservices@chemtest.com

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	23-29018-2		
Initial Date of Issue:	06-Sep-2023	**Date of Re-Issue:**	07-Sep-2023
Re-Issue Details:	This report has been revised and directly supersedes 23-29018-1 in its entirety		
Client	Jackson Geo Services		
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA		
Contact(s):	Adam Putt James Power		
Project	G23012C GCRE Monitoring		
Quotation No.:	Q22-29781	**Date Received:**	30-Aug-2023
Order No.:		**Date Instructed:**	30-Aug-2023
No. of Samples:	3		
Turnaround (Wkdays):	6	**Results Due:**	06-Sep-2023
Date Approved:	06-Sep-2023		
Approved By:			
Details:	Stuart Henderson, Technical Manager		

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-29018	23-29018	23-29018
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1695280	1695281	1695282
			Client Sample ID.:		#75500818427 0003	#91728581437 60003	#67617184327 60003
			Sample Location:		S2-BH237	S2-BH248	S2-BH250
			Sample Type:		WATER	WATER	WATER
			Top Depth (m):		25.27	6.80	3.21
			Bottom Depth (m):			8.95	8.97
			Date Sampled:		25-Aug-2023	25-Aug-2023	24-Aug-2023
			Time Sampled:		14:14	11:21	
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
pH	U	1010		N/A	7.6	7.3	8.5
Sulphate	U	1220	mg/l	1.0	74	150	73
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	13	72	57
Total Hardness as CaCO3	U	1270	mg/l	15	82	470	290
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.61	< 0.20	< 0.20
Boron (Dissolved)	U	1455	µg/l	10.0	19	44	36
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	0.59	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	8.5	0.75	0.52
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	1300	3400	160
Nickel (Dissolved)	U	1455	µg/l	0.50	22	12	2.3
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	0.71	2.2
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	69	4.7	< 2.5
Chromium (Hexavalent)	U	1490	µg/l	20	[B] < 20	[B] < 20	[B] < 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	6.7	2.3	< 2.0
Naphthalene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Acenaphthylene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Acenaphthene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Fluorene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Phenanthrene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Anthracene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Fluoranthene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Pyrene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Chrysene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-29018	23-29018	23-29018
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1695280	1695281	1695282
			Client Sample ID.:		#75500818427 0003	#91728581437 60003	#67617184327 60003
			Sample Location:		S2-BH237	S2-BH248	S2-BH250
			Sample Type:		WATER	WATER	WATER
			Top Depth (m):		25.27	6.80	3.21
			Bottom Depth (m):			8.95	8.97
			Date Sampled:		25-Aug-2023	25-Aug-2023	24-Aug-2023
			Time Sampled:		14:14	11:21	
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
Total Of 16 PAH's	U	1800	µg/l	2.0	[C] < 2.0	< 2.0	[C] < 2.0
Total Phenols	U	1920	mg/l	0.030	[C] < 0.030	< 0.030	[C] < 0.030

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request.The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1695280		#755008184270003	S2-BH237	25-Aug-2023	BC	EPA Vial 40ml
1695280		#755008184270003	S2-BH237	25-Aug-2023	BC	Plastic Bottle 1000ml
1695281		#9172858143760003	S2-BH248	25-Aug-2023	B	Coloured Winchester 1000ml
1695281		#9172858143760003	S2-BH248	25-Aug-2023	B	EPA Vial 40ml
1695282		#6761718432760003	S2-BH250	24-Aug-2023	BC	EPA Vial 40ml
1695282		#6761718432760003	S2-BH250	24-Aug-2023	BC	Plastic Bottle 1000ml

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
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1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
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Final Report

Report No.:	23-29077-1
Initial Date of Issue:	07-Sep-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	3
Turnaround (Wkdays):	5
Date Approved:	07-Sep-2023
Approved By:	

Date Received:	31-Aug-2023
Date Instructed:	01-Sep-2023
Results Due:	07-Sep-2023



Details: Stuart Henderson, Technical Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-29077	23-29077	23-29077
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1695482	1695483	1695484
Order No.:			Client Sample Ref.:		3	5	3
			Sample Location:		S1-BH118	S1-BH119	S1-BH120
			Sample Type:		WATER	WATER	WATER
			Date Sampled:		29-Aug-2023	29-Aug-2023	29-Aug-2023
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
pH	U	1010		N/A	7.0	7.2	7.4
Sulphate	U	1220	mg/l	1.0	39	16	1.1
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	43	30	23
Total Hardness as CaCO3	U	1270	mg/l	15	160	140	110
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.35	0.66	0.60
Boron (Dissolved)	U	1455	µg/l	10.0	110	97	70
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	1.7	< 0.50	< 0.50
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	2500	450	680
Nickel (Dissolved)	U	1455	µg/l	0.50	16	8.9	6.4
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	0.56	0.52	< 0.50
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	15	6.1	4.9
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	3.7	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

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I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

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Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

UKAS TESTING
2183

Final Report

Report No.:	23-29496-1
Initial Date of Issue:	08-Sep-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	1
Turnaround (Wkdays):	5
Date Approved:	08-Sep-2023
Approved By:	
Details:	Stuart Henderson, Technical Manager

Date Received:	04-Sep-2023
Date Instructed:	04-Sep-2023
Results Due:	08-Sep-2023

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-29496
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1697137
			Client Sample ID.:		#25346559251 30002
			Sample Location:		S2-BH229
			Sample Type:		WATER
			Top Depth (m):		14.20
			Date Sampled:		31-Aug-2023
			Time Sampled:		13:19
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
pH	U	1010		N/A	8.0
Sulphate	U	1220	mg/l	1.0	54
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	85
Total Hardness as CaCO3	U	1270	mg/l	15	380
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.25
Boron (Dissolved)	U	1455	µg/l	10.0	43
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	1.4
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	0.63
Nickel (Dissolved)	U	1455	µg/l	0.50	14
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50
Vanadium (Dissolved)	U	1455	µg/l	0.50	0.61
Zinc (Dissolved)	U	1455	µg/l	2.5	< 2.5
Chromium (Hexavalent)	U	1490	µg/l	20	[B] < 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-29496
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1697137
			Client Sample ID.:		#25346559251 30002
			Sample Location:		S2-BH229
			Sample Type:		WATER
			Top Depth (m):		14.20
			Date Sampled:		31-Aug-2023
			Time Sampled:		13:19
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
Total Phenols	U	1920	mg/l	0.030	< 0.030

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request.The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1697137		#2534655925130002	S2-BH229	31-Aug-2023	B	Coloured Winchester 1000ml
1697137		#2534655925130002	S2-BH229	31-Aug-2023	B	EPA Vial 40ml
1697137		#2534655925130002	S2-BH229	31-Aug-2023	B	Plastic Bottle 1000ml

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

UKAS TESTING
2183

Final Report

Report No.:	23-29817-1
Initial Date of Issue:	12-Sep-2023
Re-Issue Details:	
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G23012C GCRE Monitoring
Quotation No.:	Q22-29781
Order No.:	
No. of Samples:	1
Turnaround (Wkdays):	5
Date Approved:	12-Sep-2023
Approved By:	
Details:	Stuart Henderson, Technical Manager

Date Received:	06-Sep-2023
Date Instructed:	06-Sep-2023
Results Due:	12-Sep-2023

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-29817
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1698465
Order No.:			Client Sample Ref.:		3
			Client Sample ID.:		#73541636845 70003
			Sample Location:		S2-BH217
			Sample Type:		WATER
			Top Depth (m):		16.42
			Date Sampled:		04-Sep-2023
			Time Sampled:		14:28
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
pH	U	1010		N/A	7.9
Sulphate	U	1220	mg/l	1.0	150
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	61
Total Hardness as CaCO3	U	1270	mg/l	15	350
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.38
Boron (Dissolved)	U	1455	µg/l	10.0	46
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	0.93
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	290
Nickel (Dissolved)	U	1455	µg/l	0.50	3.1
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	4.1
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	15
Chromium (Hexavalent)	U	1490	µg/l	20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10
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Pyrene	U	1800	µg/l	0.10	< 0.10
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Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10
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Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10
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Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services			**Chemtest Job No.:**		23-29817
Quotation No.: Q22-29781			**Chemtest Sample ID.:**		1698465
Order No.:			Client Sample Ref.:		3
			Client Sample ID.:		#73541636845 70003
			Sample Location:		S2-BH217
			Sample Type:		WATER
			Top Depth (m):		16.42
			Date Sampled:		04-Sep-2023
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Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0
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1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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customerservices@chemtest.com

Appendix I. Geological Long Section Drawing

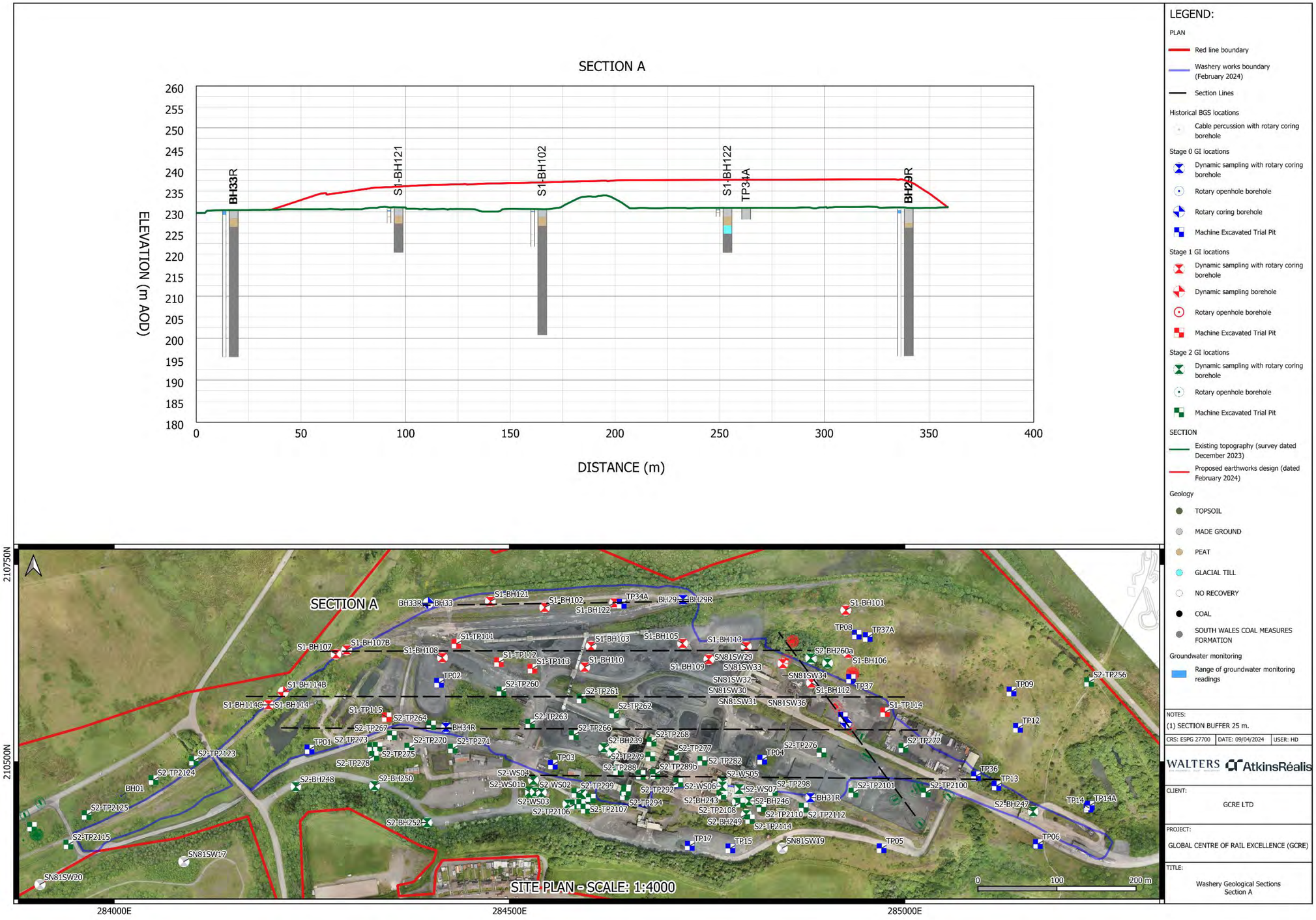


Figure 6-1: Washery Geological Sections - Section A (Imagery copyright AtkinsRéalis)

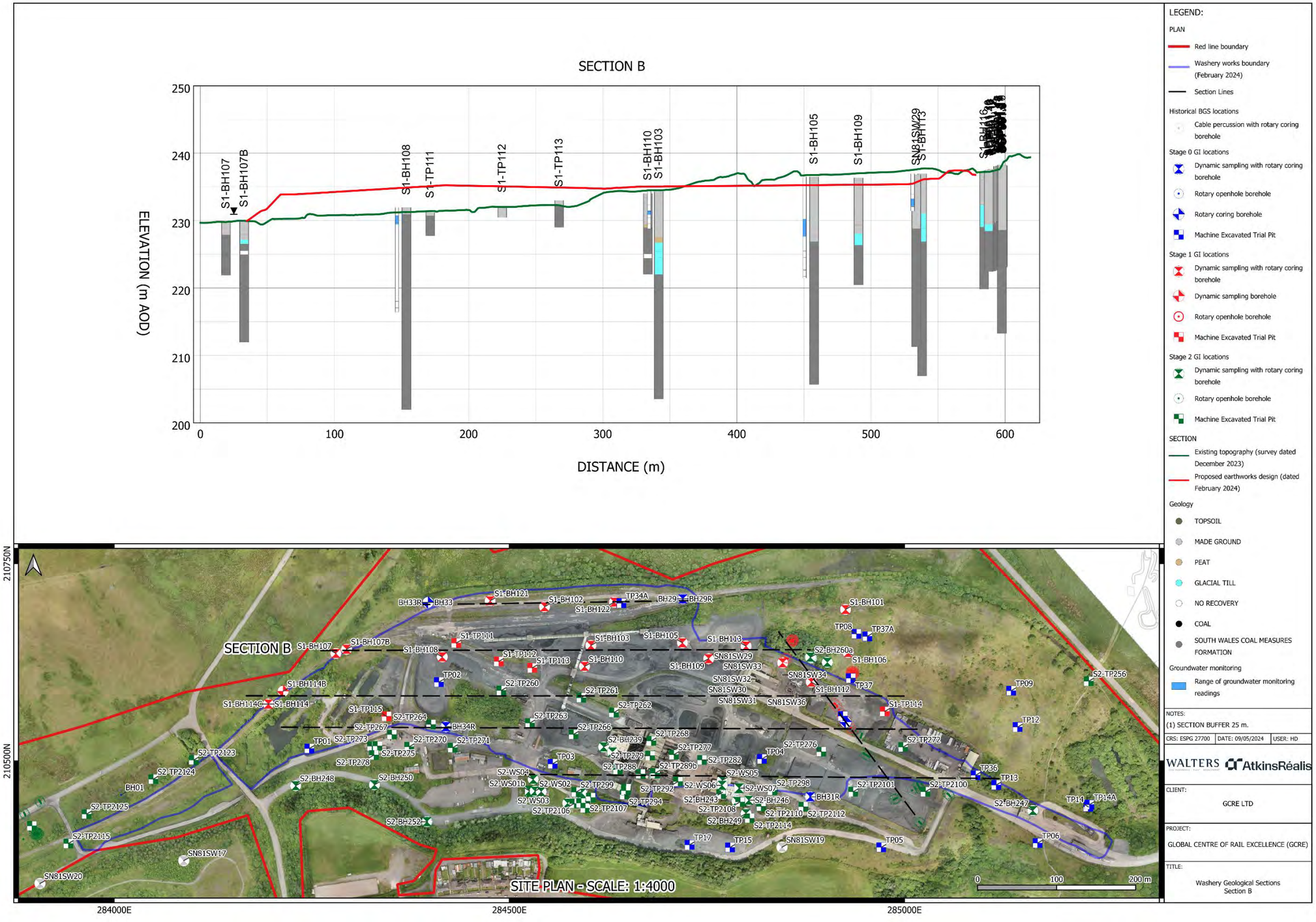


Figure 6-2: Washery Geological Sections - Section B (Imagery copyright AtkinsRéalis)

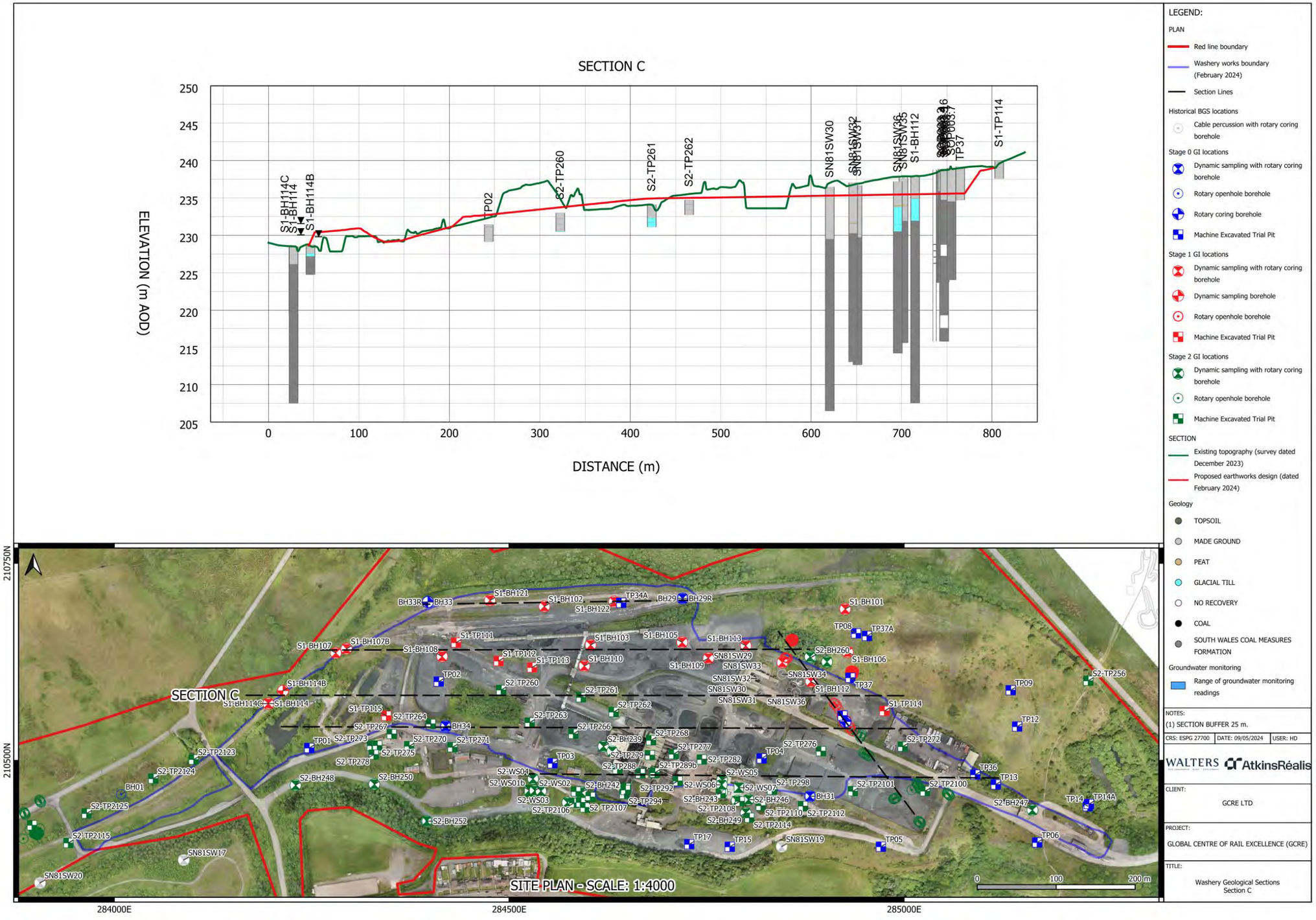


Figure 6-3: Washery Geological Sections - Section C (Imagery copyright AtkinsRéalis)

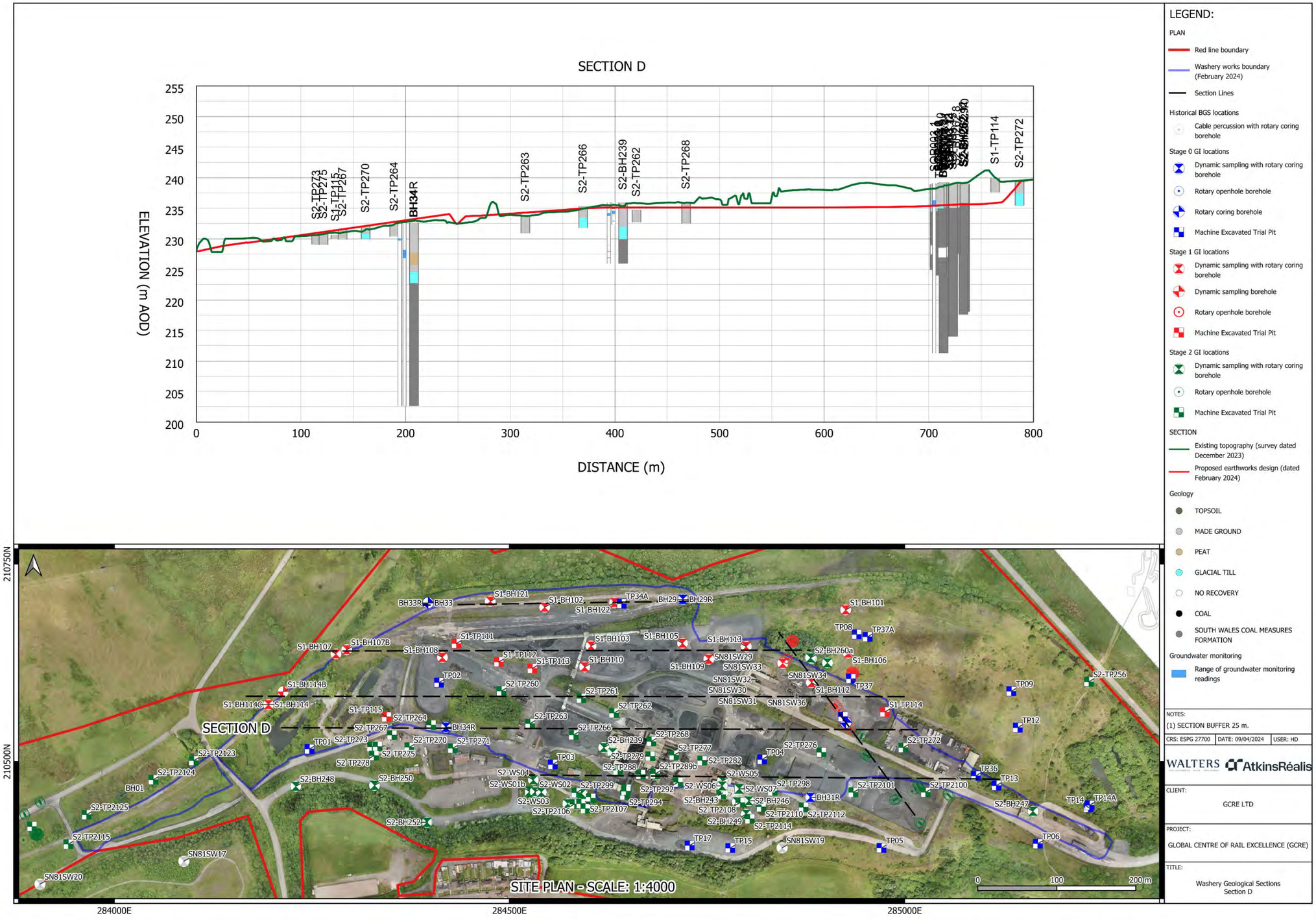


Figure 6-4: Washery Geological Sections - Section D (Imagery copyright AtkinsRéalis)

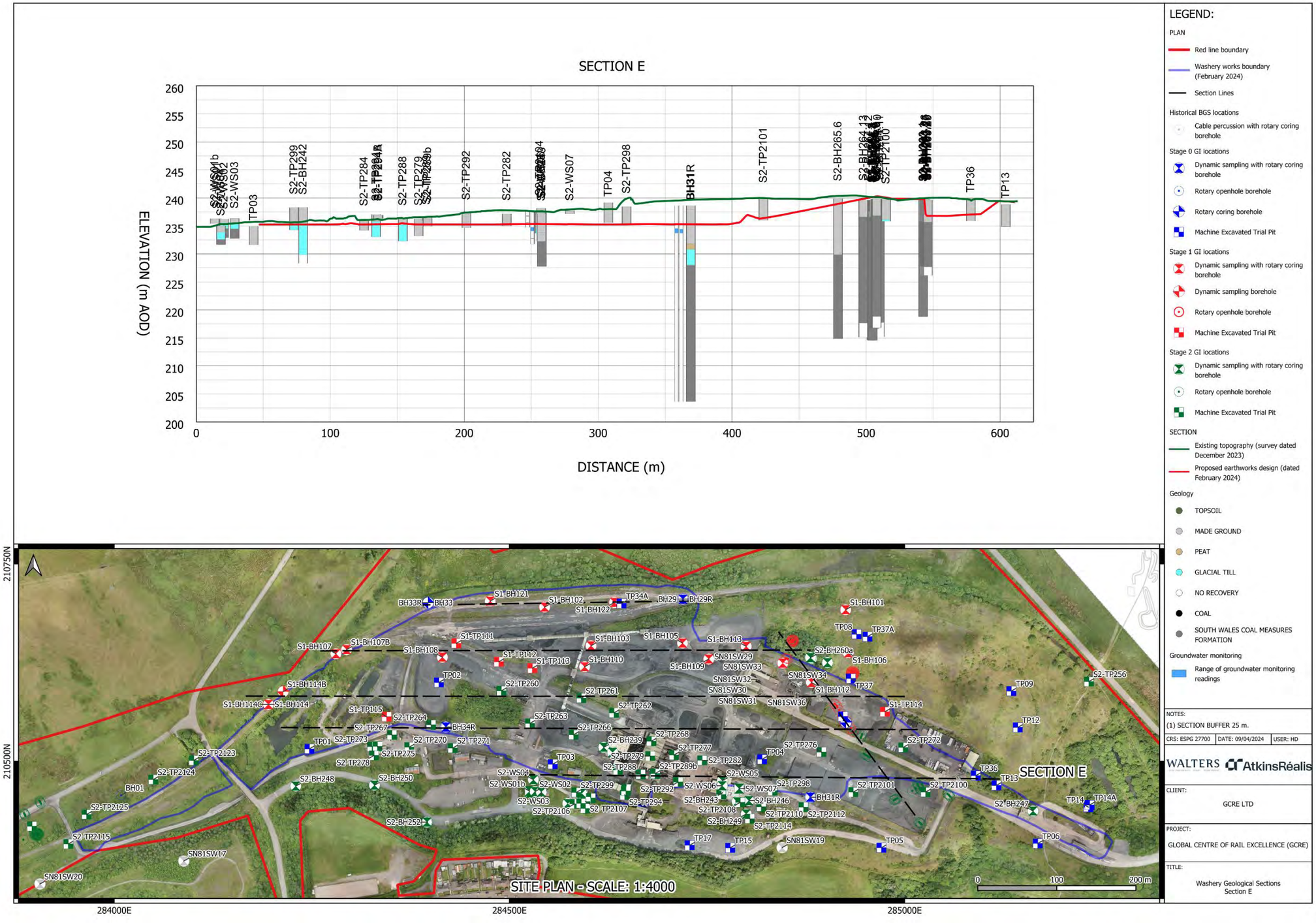


Figure 6-5: Washery Geological Sections - Section E (Imagery copyright AtkinsRéalis)

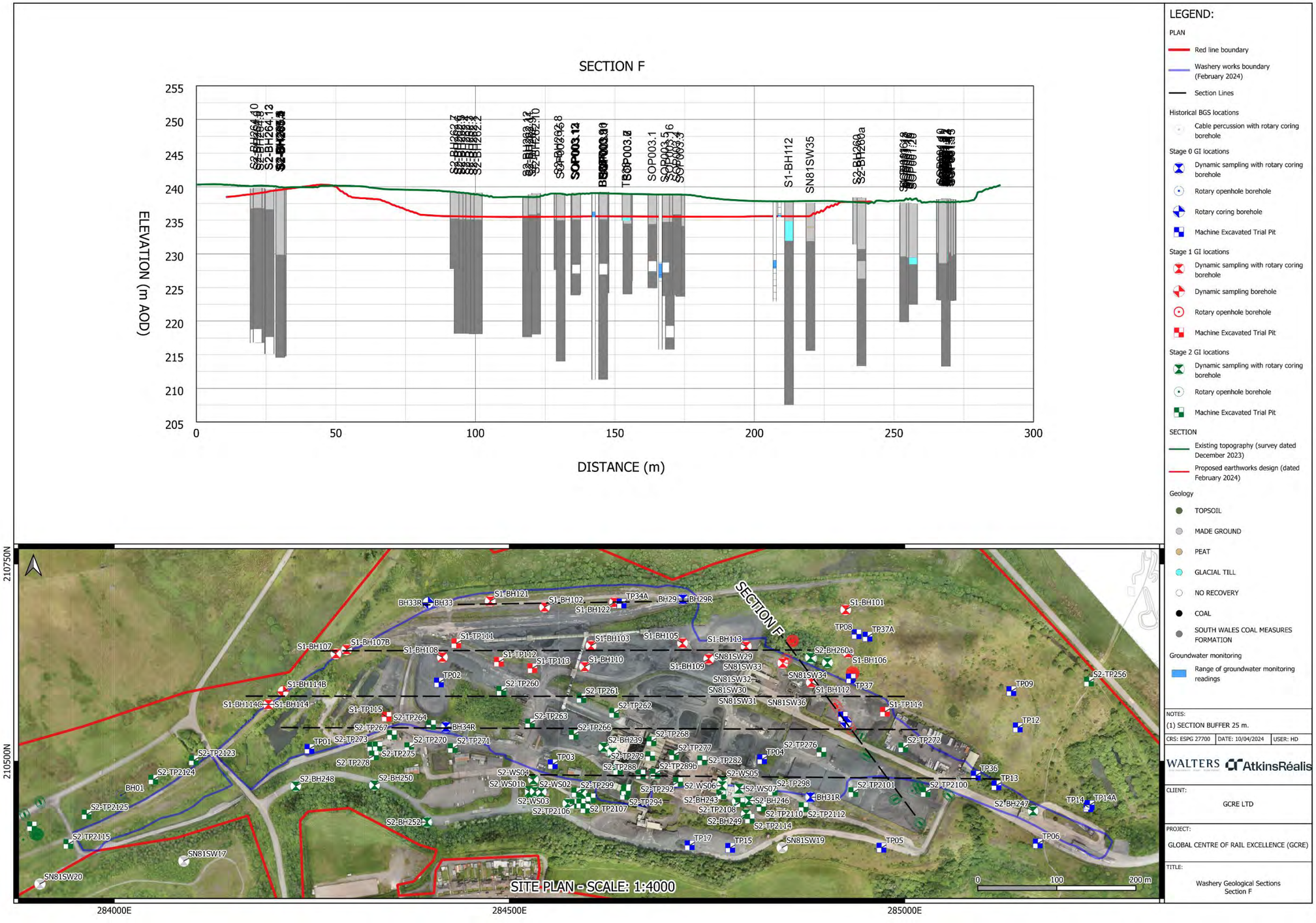


Figure 6-6: Washery Geological Sections - Section F (Imagery copyright AtkinsRéalis)

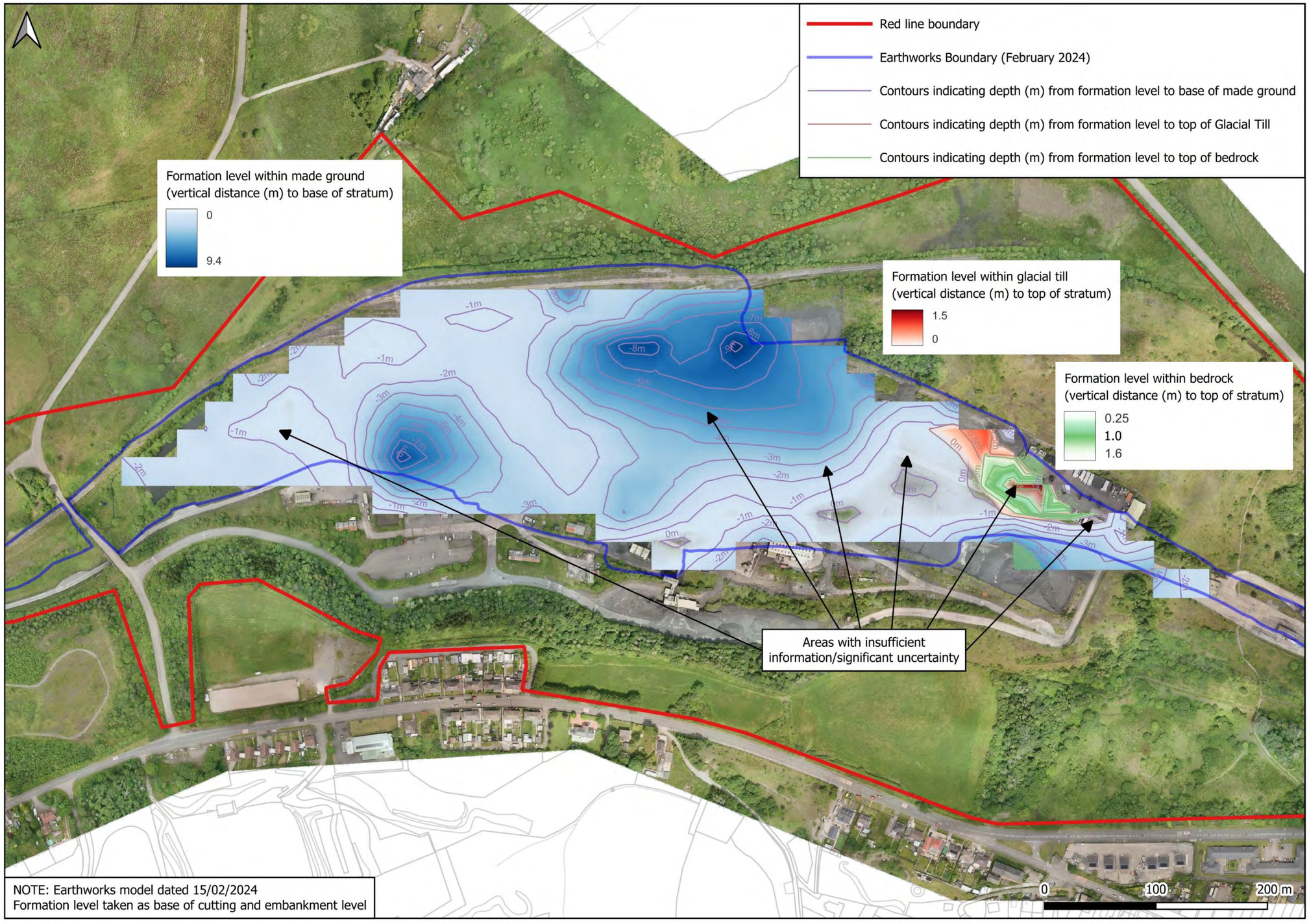


Figure 6-7: Formation Level Plan (Imagery copyright AtkinsRéalis)

Appendix J. Compiled Groundwater Monitoring Data and Hydrographs

J.1 Groundwater Monitoring

Location ID	Easting	Northing	Elevation (m AOD)	Screened Horizon (m bgl)	Geology	Date	Depth (m AOD)	Depth (m bgl)	NAPL (mm)	Remarks
BH29R	284719.5	210705.39	230.74	12.0-15.0	South Wales Coal Measures Formation	2022-01-20	230.43	0.31	-	
						2022-01-31	229.91	0.83	-	
						2022-02-22	229.96	0.78	-	
						2022-03-09	230.04	0.70	-	
						2022-03-23	230.02	0.72	-	
						2022-04-06	229.84	0.90	-	
						2022-04-25	229.70	1.04	-	
BH30R	284925.7	210549.41	239.1	3.0-4.0	Made Ground	2022-01-20	236.06	3.04	-	
						2022-01-31	235.90	3.20	-	
						2022-02-22	236.09	3.01	-	
						2022-03-09	236.15	2.95	-	
						2022-03-23	236.30	2.80	-	
						2022-04-06	236.00	3.10	-	
						2022-04-25	235.50	3.60	-	
BH31R(S)	284880.8	210454.81	238.61	1.0-5.0	Made Ground	2022-01-20	234.45	4.16	-	
						2022-01-31	234.46	4.15	-	
						2022-02-22	234.51	4.10	-	
						2022-03-09	234.51	4.10	-	
						2022-03-23	233.71	4.90	-	
						2022-04-06			-	
						2022-04-25	234.01	4.60	-	
BH31R(D)	284880.8	210454.81	238.61	16.0-21.0	South Wales Coal Measures Formation	2022-01-20	234.02	4.59	-	
						2022-01-31	234.11	4.50	-	
						2022-02-22	234.31	4.30	-	
						2022-03-09	234.33	4.28	-	
						2022-03-23	234.41	4.20	-	
						2022-04-06	233.71	4.90	-	
						2022-04-25	233.71	4.90	-	
BH32R	284968	210230.01	244.73	12.5-17.5	South Wales Coal Measures Formation	2022-01-20	241.82	2.91	-	
						2022-01-31	239.97	4.76	-	
						2022-02-22	240.94	3.79	-	
						2022-03-09	240.85	3.88	-	
						2022-03-23	240.98	3.75	-	
						2022-04-06	240.68	4.05	-	
						2022-04-25	241.25	3.48	-	
BH33R	284397	210700.88	230.51	15.0-20.0	South Wales Coal Measures Formation	2022-01-20	230.41	0.10	-	
						2022-01-31	230.10	0.41	-	
						2022-02-22	230.26	0.25	-	
						2022-03-09	230.16	0.35	-	
						2022-03-23	230.21	0.30	-	
						2022-04-06	229.81	0.70	-	
						2022-04-25	229.41	1.10	-	
						2022-01-20	229.91	2.72	-	

Location ID	Easting	Northing	Elevation (m AOD)	Screened Horizon (m bgl)	Geology	Date	Depth (m AOD)	Depth (m bgl)	NAPL (mm)	Remarks
BH34R(S)	284419.6	210543.6	232.63	1.0-3.3	Made Ground	2022-01-31	229.78	2.85	-	
						2022-02-22	229.95	2.68	-	
						2022-03-09	230.03	2.60	-	
						2022-03-23	229.95	2.68	-	
						2022-04-06	229.73	2.90	-	
						2022-04-25	229.90	2.73	-	
BH34R(D)	284419.6	210543.6	232.63	11.0-13.0	South Wales Coal Measures Formation	2022-01-20	227.81	4.82	-	
						2022-01-31	227.54	5.09	-	
						2022-02-22	228.18	4.45	-	
						2022-03-09	228.03	4.60	-	
						2022-03-23	228.08	4.55	-	
						2022-04-06	227.53	5.10	-	
						2022-04-25	226.80	5.83	-	
S1-BH101	284925.4	210692.01	241.16	11.0-14.0	Made Ground	2022-12-20	230.60	10.56	-	Base dipped at 13.49m
						2022-12-21	230.62	10.54	-	Base dipped at 13.48m
						2022-12-22	230.64	10.52	-	Base dipped at 13.48m
						2023-01-09	230.72	10.44	-	Base dipped at 13.74m. No LNAPL detected.
						2023-01-25			-	Base dipped at 13.74m. Borehole dry
						2023-01-31	230.50	10.66	-	Base dipped at 13.61m
						2023-02-14	230.50	10.66	-	Base dipped at 13.47m
S1-BH102	284544.5	210695.4	230.73	6.0-9.0	South Wales Coal Measures Formation	2022-11-21	230.09	0.64	-	Base dipped at 8.94m
						2022-11-22	230.05	0.68	-	Base dipped at 8.94m
						2022-11-23	230.25	0.48	-	Base dipped at 8.93m
						2022-11-24	230.20	0.53	-	Base dipped at 8.94m
						2022-11-25	230.12	0.61	-	Base dipped at 8.85m
						2022-11-28	230.08	0.65	-	Base dipped at 8.94m
						2022-12-02	230.04	0.69	-	Base dipped at 8.85m.
						2022-12-05	230.08	0.65	-	Base dipped at 8.85m.
						2022-12-12	230.08	0.65	-	Base dipped at 8.82m
						2022-12-13	230.04	0.69	-	Base dipped at 8.84m
						2022-12-14	230.04	0.69	-	Base dipped at 8.84m
						2022-12-15	230.09	0.64	-	Base dipped at 8.84m
						2022-12-16	230.09	0.64	-	Base dipped at 8.84m
						2022-12-20	230.07	0.66	-	Base dipped at 8.77m
						2022-12-22	230.10	0.63	-	Base dipped at 8.85m
						2023-01-09	230.23	0.50	-	Base dipped at 8.77m. No LNAPL detected.
						2023-01-24	230.05	0.68	-	Base dipped at 8.72m
						2023-01-31	230.09	0.64	-	Base dipped at 8.85m
						2023-02-01	230.09	0.64	-	Base dipped at 8.85m
						2023-02-13	230.05	0.68	-	Base dipped at 8.75m
						2022-12-12	230.91	3.42	-	Base dipped at 12.10m

Location ID	Easting	Northing	Elevation (m AOD)	Screened Horizon (m bgl)	Geology	Date	Depth (m AOD)	Depth (m bgl)	NAPL (mm)	Remarks
S1-BH103	284603.2	210646.48	234.33	2.0-5.5	Made Ground	2022-12-13	230.91	3.42	-	Base dipped at 5.67m
						2022-12-14	230.91	3.42	-	Base dipped at 5.67m
						2022-12-16	230.93	3.40	-	Base dipped at 5.67m
						2022-12-20	231.19	3.14	-	Base dipped at 5.51m
						2022-12-22	231.21	3.12	-	Base dipped at 5.52m
						2023-01-09	231.48	2.85	-	Base dipped at 5.75m. No LNAPL detected.
						2023-01-25	231.08	3.25	-	Base dipped at 5.54m
						2023-01-31	231.03	3.30	-	Base dipped at 5.52m
						2023-02-02	231.03	3.30	-	Base dipped at 5.52m
						2023-02-14	230.93	3.40	-	Base dipped at 5.52m
S1-BH105	284719	210649.88	236.49	11.0-15.0	South Wales Coal Measures Formation	2022-12-12	230.04	6.45	-	Base dipped at 15.64m
							227.65	8.84	-	Base dipped at 15.61m
							227.66	8.83	-	Base dipped at 15.60m
							229.98	6.51	-	Base dipped at 15.61m
							229.99	6.50	-	Base dipped at 15.62m
							230.09	6.40	-	Base dipped at 15.39m
							230.11	6.38	-	Base dipped at 15.61m
							230.19	6.30	-	Base dipped at 15.50m. No LNAPL detected.
							230.21	6.28	-	Base dipped at 15.44m
							230.07	6.42	-	Base dipped at 15.36m
							230.07	6.42	-	Base dipped at 15.36m
							230.03	6.46	-	Base dipped at 15.36m
S1-BH108	284415.1	210631.95	231.95	13.0-15.5	South Wales Coal Measures Formation	2022-11-25	230.17	1.78	-	Base dipped at 15.50m
						2022-11-28	230.55	1.40	-	Base dipped at 15.50m
						2022-12-05	230.11	1.84	-	Base dipped at 15.48m.
						2022-12-07	230.16	1.79	-	Base dipped at 15.47m.
						2022-12-12	229.72	2.23	-	Base dipped at 12.19m
						2022-12-13	229.52	2.43	-	Base dipped at 15.75m
						2022-12-14	229.51	2.44	-	Base dipped at 15.75m
						2022-12-15	229.48	2.47	-	Base dipped at 2.47m
						2022-12-16	229.46	2.49	-	Base dipped at 15.71m
						2022-12-20	229.72	2.23	-	Base dipped at 15.45m
						2022-12-22	229.70	2.25	-	Base dipped at 15.51m
						2023-01-09	230.76	1.19	-	Base dipped at 15.60m. No LNAPL detected.
						2023-01-16	230.77	1.18	-	Base dipped at 15.55m
						2023-01-31	229.82	2.13	-	Base dipped at 15.46m
S1-	284882.1	210599.97	237.94	1.0-2.5	Made Ground	2022-12-20	235.85	2.09	-	Base dipped at 3.34m
						2022-12-21	235.69	2.25	-	Base dipped at 3.31m
						2022-12-22	235.86	2.08	-	Base dipped at 3.3m
						2023-01-09	235.53	2.41	-	Base dipped at 3.37m. No LNAPL detected.

Location ID	Easting	Northing	Elevation (m AOD)	Screened Horizon (m bgl)	Geology	Date	Depth (m AOD)	Depth (m bgl)	NAPL (mm)	Remarks
BH112(S)	284882.1	210599.97	237.94	1.0-2.5	Made Ground	2023-02-02			-	Water dipped at 3.15m. Base dipped at 3.36m
						2023-02-14			-	Water dipped at 3.20m. Base dipped at 3.41m
S1-BH112(D)	284882.1	210599.97	237.94	8.0-15.0	South Wales Coal Measures Formation	2022-12-20	228.20	9.74	-	Base dipped at 15.23m
						2022-12-21	228.32	9.62	-	Base dipped at 15.00m
						2022-12-23	228.32	9.62	-	Base dipped at 14.99m
						2023-01-09	229.07	8.87	-	Base dipped at 15.12m. No LNAPL detected.
						2023-02-02	227.96	9.98	-	Base dipped at 15.00m
						2023-02-14	227.81	10.13	-	Base dipped at 15.17m
S1-BH113	284799.6	210645.61	236.95	3.0-5.5	Made Ground	2022-11-25	232.78	4.17	-	Base dipped at 5.50m
						2022-11-28	232.85	4.10	-	Base dipped at 5.50m
						2022-12-02	232.58	4.37	-	Base dipped at 5.50m.
						2022-12-05	232.40	4.55	-	Base dipped at 5.50m.
						2022-12-12	232.43	4.52	-	Base dipped at 5.58m
						2022-12-13	232.25	4.70	-	Base dipped at 5.58m
						2022-12-14	232.25	4.70	-	Base dipped at5.58m
						2022-12-15	232.24	4.71	-	Base dipped at 5.58m
						2022-12-16	232.15	4.80	-	Base dipped at 5.58m
						2022-12-20	232.82	4.13	-	Base dipped at 5.50m
						2022-12-22	232.84	4.11	-	Base dipped at 5.52m
						2023-01-09	233.26	3.69	-	Base dipped at 5.53m. No LNAPL detected.
						2023-01-16	233.09	3.86	-	Base dipped at 5.53m
						2023-01-31	232.29	4.66	-	Base dipped at 5.54m
						2023-02-01	232.29	4.66	-	Base dipped at 5.54m
						2023-02-14			-	Borehole dry. Base dipped at 5.49m
S1-BH121	284475.7	210703	230.88	12.0-20.0	Peat	2022-11-24	230.41	0.47	-	Base dipped at 3.36m
						2022-11-15	230.36	0.52	-	Base dipped at 3.37m
						2022-11-16	230.45	0.43	-	Base dipped at 3.37m
						2022-11-17	230.35	0.53	-	Base dipped at 3.37m
						2022-11-21	230.44	0.44	-	Base dipped at 3.36m
						2022-11-22	230.42	0.46	-	Base dipped at 3.37m
						2022-11-23	230.44	0.44	-	Base dipped at 3.36m
						2022-11-25	230.40	0.48	-	Base dipped at 3.35m
						2022-11-28	230.45	0.43	-	Base dipped at 3.38m
						2022-12-02	230.23	0.65	-	Base dipped at 3.40m.
						2022-12-05	230.17	0.71	-	Base dipped at 3.40m.
						2022-12-12	230.18	0.70	-	Base dipped at 12.48m
						2022-12-13	230.13	0.75	-	Base dipped at 3.33m
						2022-12-14	230.13	0.75	-	Base dipped at 3.33m
						2022-12-15	230.16	0.72	-	Base dipped at 3.33m

Location ID	Easting	Northing	Elevation (m AOD)	Screened Horizon (m bgl)	Geology	Date	Depth (m AOD)	Depth (m bgl)	NAPL (mm)	Remarks
						2022-12-16	230.12	0.76	-	Base dipped at 3.32m
						2022-12-20	230.42	0.46	-	Base dipped at 3.28m
						2022-12-23	230.42	0.46	-	Base dipped at 3.40m
						2023-01-09	230.43	0.45	-	Base dipped at 3.31m. No LNAPL detected
						2023-01-17	230.23	0.65	-	Base dipped at 3.33m
						2023-01-24	230.25	0.63	-	Base dipped at 3.30m
						2023-01-31	230.27	0.61	-	Base dipped at 3.22m
						2023-02-01	230.27	0.61	-	Base dipped at 3.32m
						2023-02-13	230.21	0.67	-	Base dipped at 3.28m
S1-BH122	284632.9	210701.3	230.82	1.0-1.9	Made Ground	2022-11-15	230.61	0.21	-	Base dipped at 1.84m
						2022-11-16	230.65	0.17	-	Base dipped at 1.84m
						2022-11-17	230.63	0.19	-	Base dipped at 1.84m
						2022-11-21	230.63	0.19	-	Base dipped at 1.83m
						2022-11-22	230.61	0.21	-	Base dipped at 1.83m
						2022-11-23	230.63	0.19	-	Base dipped at 1.82m
						2022-11-24	230.64	0.18	-	Base dipped at 1.83m.
						2022-11-25	230.62	0.20	-	Base dipped at 1.82m
						2022-11-28	230.63	0.19	-	Base dipped at 1.84m
						2022-12-02	230.54	0.28	-	Base dipped at 1.85m.
						2022-12-05	230.56	0.26	-	Base dipped at 1.85m.
						2022-12-12	230.46	0.36	-	Base dipped at 1.80m
						2022-12-13	230.40	0.42	-	Base dipped at 2.45m
						2022-12-14	230.46	0.36	-	Base dipped at 2.46m
						2022-12-15	230.50	0.32	-	Base dipped at 1.79m
						2022-12-16	230.46	0.36	-	Base dipped at 1.79m
						2022-12-20	230.65	0.17	-	Base dipped at 1.80m
						2022-12-23	230.61	0.21	-	Base dipped at 1.79m
						2023-01-09	230.67	0.15	-	Base dipped at 1.77m. No LNAPL detected.
						2023-01-24	230.54	0.28	-	Base dipped at 1.76m
						2023-01-31	230.57	0.25	-	Base dipped at 1.76m
						2023-02-01	230.57	0.25	-	Base dipped at 1.76m
						2023-02-13	230.48	0.34	-	Base dipped at 1.76m
S2-BH239(S)	284619.3	210517.92	235.94	1.0-3.6	Made Ground	2023-06-27	234.05	1.89	-	Base dipped at 3.60m
						2023-07-25	234.48	1.46	-	Base dipped at 3.70m
						2023-08-22	234.57	1.37	-	Base dipped at 3.60m
S2-BH239(D)	284619.3	210517.92	235.94	7.0-10.0	South Wales Coal Measures Formation	2023-06-26	233.74	2.20	-	Base dipped at 7.6m
						2023-07-25	234.20	1.74	-	Base dipped at 7.80m
						2023-08-22	234.02	1.92	-	Base dipped at 7.59m
S2-BH240	284630.5	210511.45	236.11	1.0-6.0	Made Ground	2023-06-27	234.10	2.01	-	Base dipped at 5.16m
						2023-07-24	234.56	1.55	-	Base dipped at 5.38m
						2023-08-22	234.54	1.57	-	Base dipped at 5.28m
						2023-04-11			-	Base dipped at 3.70m Dry

Location ID	Easting	Northing	Elevation (m AOD)	Screened Horizon (m bgl)	Geology	Date	Depth (m AOD)	Depth (m bgl)	NAPL (mm)	Remarks
S2-BH242	284591.4	210459.64	238.33	1.0-3.7	Made Ground / Peat / Glacial Till	2023-04-12			-	Base dipped at 3.68m Dry
						2023-04-13			-	Base dipped at 3.88m Dry
						2023-04-18	236.45	1.88	-	Base dipped at 3.70m
						2023-04-19	236.37	1.96	-	Base dipped at 3.75m
						2023-04-20	236.38	1.95	-	Base dipped at 3.75m
						2023-04-26	236.22	2.11	-	Base dipped at 3.70m
						2023-05-03	236.15	2.18	-	Base dipped at 3.69m
						2023-06-26	236.26	2.07	-	Base dipped at 3.74m
						2023-07-25	236.45	1.88	-	Base dipped at 3.79m
						2023-08-22	236.23	2.10	-	Base dipped at 3.77m
S2-BH243(S)	284769.6	210460.39	237.75	1.0-3.0	Made Ground (Colliery Spoil)	2023-06-26			-	Borehole dry. Base dipped at 2.93m
						2023-07-24			-	Borehole dry. Base dipped at 2.98m
						2023-08-21			-	Base dipped dry at 2.93m
						2023-08-22			-	Borehole dry. Base dipped at 2.93m
S2-BH243(D)	284769.6	210460.39	237.75	5.0-6.0	South Wales Coal Measures Formation	2023-06-26	234.09	3.66	-	Base dipped at 5.88m
						2023-07-24	234.57	3.18	-	Base dipped at 5.93m
						2023-08-21	234.77	2.98	-	Base dipped at 5.86m
S2-BH244(S)	284788.1	210449.13	237.58	1.0-3.5	Made Ground	2023-04-04	235.00	2.58	-	Base dipped at 3.50m
						2023-04-05	235.08	2.50	-	Base dipped at 3.46m
						2023-04-06			-	Base dipped at 3.44m. Dry
						2023-04-11	235.00	2.58	-	Base dipped at 3.50m
						2023-04-12	235.00	2.58	-	Base dipped at 3.49m
						2023-04-13	235.12	2.46	-	Base dipped at 3.34m
						2023-04-18	234.86	2.72	-	Base dipped at 3.46m
						2023-04-19	234.80	2.78	-	Base dipped at 3.50m
						2023-04-20	234.81	2.77	-	Base dipped at 3.50m
						2023-04-26	234.83	2.75	-	Base dipped at 3.47m
						2023-05-03	234.89	2.69	-	Base dipped at 3.51m
						2023-06-26			-	Borehole dry. Base dipped at 3.49m
						2023-07-24	234.58	3.00	-	Base dipped at 3.57m
						2023-08-21	234.93	2.65	-	Base dipped at 3.42m
S2-BH244(D)	284788.1	210449.13	237.58	4.5-10.0	South Wales Coal Measures Formation	2023-04-04	235.07	2.51	-	Base dipped at 9.25m
						2023-04-05	235.18	2.40	-	Base dipped at 9.19m
						2023-04-06	234.75	2.83	-	Base dipped at 9.32m
						2023-04-11	234.83	2.75	-	Base dipped at 9.80m
						2023-04-12	234.98	2.60	-	Base dipped at 9.83m
						2023-04-13	234.89	2.69	-	Base dipped at 9.06m
						2023-04-18	234.85	2.73	-	Base dipped at 9.35m
						2023-04-19	234.81	2.77	-	Base dipped at 9.45m
						2023-04-20	234.82	2.76	-	Base dipped at 9.40m
						2023-04-26	234.90	2.68	-	Base dipped at 9.33m
						2023-05-03	234.90	2.68	-	Base dipped at 9.30m

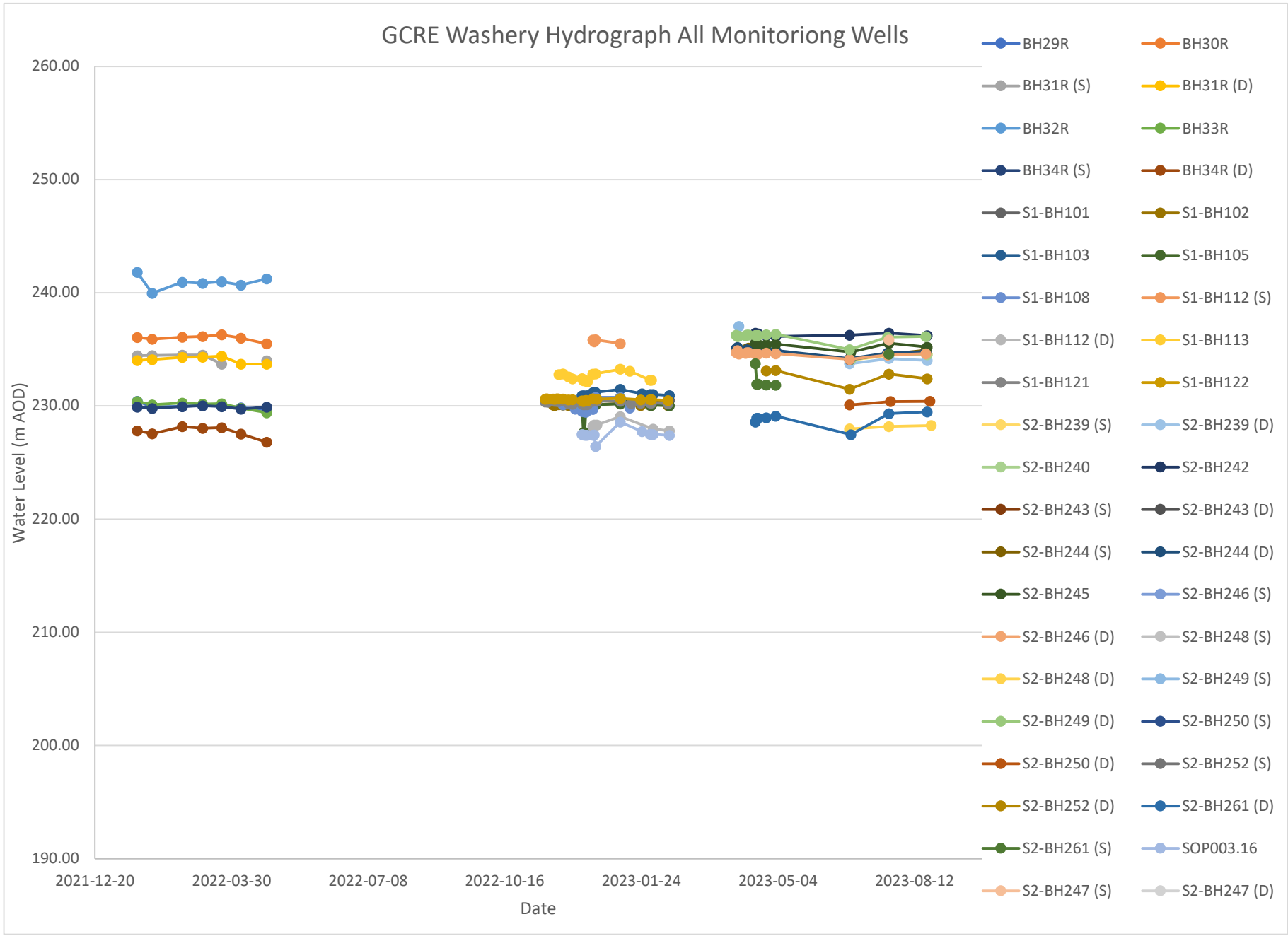
Location ID	Easting	Northing	Elevation (m AOD)	Screened Horizon (m bgl)	Geology	Date	Depth (m AOD)	Depth (m bgl)	NAPL (mm)	Remarks
						2023-06-26	234.19	3.39	-	Base dipped at 9.38m
						2023-07-24	234.68	2.90	-	Base dipped at 9.25m
						2023-08-21	234.81	2.77	-	Base dipped at 9.44m
S2-BH245	284573.8	210446.75	238.37	1.5-4.0	Made Ground / Weathered SWCM	2023-04-18	235.57	2.80	-	Base dipped at 3.91m
						2023-04-19	235.43	2.94	-	Base dipped at 3.80m
						2023-04-20	235.44	2.93	-	Base dipped at 3.80m
						2023-04-26	235.42	2.95	-	Base dipped at 3.87m
						2023-05-03	235.46	2.91	-	Base dipped at 3.87m
						2023-06-27	234.77	3.60	-	Base dipped at 3.84m
						2023-07-25	235.54	2.83	-	Base dipped at 3.75m. Silted at base.
						2023-08-22	235.21	3.16	-	Base dipped at 3.82m
S2-BH246(S)	284802.9	210450.5	237.58	1.0-2.8	Colliery Spoil / Made Ground	2023-04-04			-	Base dipped at 2.25m. Dry.
						2023-04-05			-	Base dipped at 2.50m Dry
						2023-04-06			-	Base dipped at 2.31m. Dry
						2023-04-11			-	Base dipped at 2.50m Dry
						2023-04-12			-	Base dipped at 2.52m Dry
						2023-04-13			-	Base dipped at 2.48m Dry
						2023-04-18			-	Base dipped at 2.49m Dry
						2023-04-19			-	Base dipped at 2.38m Dry
						2023-04-20			-	Base dipped at 2.38m Dry
						2023-04-26			-	Base dipped at 2.41m Dry
						2023-05-03			-	Base dipped at 2.39m Dry.
						2023-06-26			-	Borehole dry. Base dipped at 2.38m
						2023-07-24			-	Borehole dry. Base dipped at 2.30m
						2023-08-21			-	Base dipped at 2.50m DRY
S2-BH246(D)	284802.9	210450.5	237.58	3.5-8.0	South Wales Coal Measures Formation	2023-04-04	234.73	2.85	-	Base dipped at 7.90m
						2023-04-05	234.91	2.67	-	Base dipped at 7.93m
						2023-04-06	234.61	2.97	-	Base dipped at 7.87m
						2023-04-11	234.66	2.92	-	Base dipped at 7.90m
						2023-04-12	234.72	2.86	-	Base dipped at 7.90m
						2023-04-13	234.73	2.85	-	Base dipped at 8.05m
						2023-04-18	234.60	2.98	-	Base dipped at 7.95m
						2023-04-19	234.56	3.02	-	Base dipped at 7.84m
						2023-04-20	234.58	3.00	-	Base dipped at 7.85m
						2023-04-26	234.69	2.89	-	Base dipped at 7.89m
						2023-05-03	234.63	2.95	-	Base dipped at 7.92m
						2023-06-26	234.13	3.45	-	Base dipped at 7.87m.
						2023-07-24	234.50	3.08	-	Base dipped at 7.86m
						2023-08-21	234.62	2.96	-	Base dipped at 8.01m
S2-BH247	285162.5	210437.32	237.12	1.0-2.0	Colliery Spoil / Made Ground	2023-06-26			-	Borehole dry. Base dipped at 1.99m
						2023-07-25	235.84	1.28	-	Base dipped at 1.99m
						2023-08-22			-	Borehole dry. Base dipped at 1.96m

Location ID	Easting	Northing	Elevation (m AOD)	Screened Horizon (m bgl)	Geology	Date	Depth (m AOD)	Depth (m bgl)	NAPL (mm)	Remarks
						2023-07-25	228.76	8.36	-	Base dipped at 8.84m
						2023-08-22	237.12		-	Borehole dry. Base dipped at 8.82m
S2-BH248(S)	284229.6	210468.78	234.28	1.0-4.0	Made Ground	2023-04-26			-	Base dipped at 3.98m Dry
						2023-05-03			-	Base dipped at 3.97m Dry.
						2023-06-26			-	Base dipped at 3.90m Dry.
						2023-07-25			-	Base dipped at 3.90m Dry.
						2023-08-25			-	Base dipped dry at 3.90m
S2-BH248(D)	284229.6	210468.78	234.28	6.5-9.5	Made Ground	2023-04-26			-	Base dipped at 9.42m Dry
						2023-05-03			-	Base dipped at 9.45m Water at base.
						2023-06-26	227.98	6.30	-	Base dipped at 9.01m
						2023-07-25	228.18	6.10	-	Base dipped at 9.26m
						2023-08-25	228.28	6.00	-	Base dipped at 8.95m
S2-BH249(S)	284799.5	210433.56	239.84	1.0-2.8	Made Ground	2023-04-04			-	Base dipped at 2.80m. Dry.
						2023-04-05			-	Base dipped at 3.11m Dry
						2023-04-06	237.04	2.80	-	Base dipped at 2.80m
						2023-04-11			-	Base dipped at 3.13m Dry
						2023-04-12			-	Base dipped at 3.15m Dry
						2023-04-13			-	Base dipped at 3.12m Dry
						2023-04-18			-	Base dipped at 2.90m Dry
						2023-04-19			-	Base dipped at 3.40m Dry
						2023-04-20			-	Base dipped at 3.40m Dry
						2023-04-26			-	Base dipped at 3.13m Dry
						2023-05-03			-	Base dipped at 3.15m Dry
						2023-06-26			-	Borehole dry. Base dipped at 3.14m
						2023-07-24			-	Borehole dry. Base dipped at 3.14m
						2023-08-21			-	Base dipped dry at 3.15m
S2-BH249(D)	284799.5	210433.56	239.84	3.5-8.0	South Wales Coal Measures Formation	2023-04-04	236.27	3.57	-	Base dipped at 7.50m
						2023-04-05	236.14	3.70	-	Base dipped at 7.52m
						2023-04-06	236.19	3.65	-	Base dipped at 7.48m
						2023-04-11	236.23	3.61	-	Base dipped at 7.30m
						2023-04-12	236.28	3.56	-	Base dipped at 7.30m
						2023-04-13	236.29	3.55	-	Base dipped at 7.30m
						2023-04-18	236.24	3.60	-	Base dipped at 7.50m
						2023-04-19	236.24	3.60	-	Base dipped at 7.24m
						2023-04-20	236.24	3.60	-	Base dipped at 7.25m
						2023-04-26	236.30	3.54	-	Base dipped at 7.31m
						2023-05-03	236.35	3.49	-	Base dipped at 7.33m
						2023-06-26	234.99	4.85	-	Base dipped at 7.65m
						2023-07-24	236.08	3.76	-	Base dipped at 7.70m
						2023-08-21	236.15	3.69	-	Base dipped at 7.49m
S2-BH250(S)	284329.2	210469.98	233.63	1.0-2.0	Made Ground	2023-06-26			-	Base dipped at 2.05m Dry.
						2023-07-26			-	Base dipped at 2.03m Dry

Location ID	Easting	Northing	Elevation (m AOD)	Screened Horizon (m bgl)	Geology	Date	Depth (m AOD)	Depth (m bgl)	NAPL (mm)	Remarks
~~BH250(S)~~						2023-08-24			-	Base dipped at 2.07m Dry.
S2-BH250(D)	284329.2	210469.98	233.63	7.5-9.0	South Wales Coal Measures Formation	2023-06-26	230.10	3.53	-	Base dipped at 9.07m
						2023-07-26	230.40	3.23	-	Base dipped at 9.30m
						2023-08-24	230.42	3.21	-	Base dipped at 8.97m
S2-BH252(S)	284395.6	210423.28	236.9	1.0-2.5	Made Ground	2023-04-26			-	Base dipped at 2.51m Dry
						2023-05-03			-	Base dipped at 2.52m Water at base.
						2023-06-26			-	Base dipped at 2.54m Dry
						2023-07-25			-	Damp at base. Base dipped at 2.58m
						2023-08-22			-	Base dipped at 2.55m Dry
S2-BH252(D)	284395.6	210423.28	236.9	6.0-9.0	South Wales Coal Measures Formation	2023-04-26	233.10	3.80	-	Base dipped at 8.30m
						2023-05-03	233.14	3.76	-	Base dipped at 8.82m
						2023-06-26	231.49	5.41	-	Base dipped at 8.63m
						2023-07-25	232.83	4.07	-	Base dipped at 8.87m
						2023-08-22	232.40	4.50	-	Base dipped at 9.00m
S2-BH261(S)	284902.3	210625.01	239.05	10.0-15.0	South Wales Coal Measures Formation	2023-04-18	228.59	10.46	-	Base dipped at 14.80m
						2023-04-19	228.92	10.13	-	Base dipped at 14.57m
						2023-04-20	228.93	10.12	-	Base dipped at 14.60m
						2023-04-26	228.96	10.09	-	Base dipped at 14.60m
						2023-05-03	229.10	9.95	-	Base dipped at 14.63m
						2023-06-27	227.47	11.58	-	Base dipped at 14.32m
						2023-07-25	229.33	9.72	-	Base dipped at 14.08m
						2023-08-22	229.49	9.56	-	Base dipped at 14.06m
S2-BH261(D)	284902.3	210625.01	239.05	3.0-8.0	Colliery Spoil	2023-04-18	233.74	5.31	-	Base dipped at 7.80m
						2023-04-19	231.93	7.12	-	Base dipped at 7.89m
						2023-04-20	231.94	7.11	-	Base dipped at 7.90m
						2023-04-26	231.87	7.18	-	Base dipped at 7.88m
						2023-05-03	231.84	7.21	-	Base dipped at 7.91m
						2023-06-27			-	Base dipped at 7.62m Dry.
						2023-07-25	234.59	4.46	-	Base dipped at 7.70m
						2023-08-22			-	Base dipped dry at 7.81m
SOP003.16	284914.1	210570.58	238.78	10.0-13.0	South Wales Coal Measures Formation	2022-12-09			-	Dry. Base dipped at 13.88m
						2022-12-12	227.48	11.30	-	Base dipped at 13.86m
						2022-12-13	227.44	11.34	-	Base dipped at 13.37m
						2022-12-14	227.42	11.36	-	Base dipped at 13.34m
						2022-12-15	227.43	11.35	-	Base dipped at 13.86m
						2022-12-16	227.43	11.35	-	Base dipped at 13.90m
						2022-12-20	227.43	11.35	-	Base dipped at 13.88m
						2022-12-21	227.44	11.34	-	Base dipped at 13.88m
						2022-12-22	226.43	12.35	-	Base dipped at 13.88m
						2023-01-09	228.58	10.20	-	Base dipped at 13.75m. No LNAPL detected.
						2023-01-25	227.74	11.04	-	Base dipped at 13.60m

Location ID	Easting	Northing	Elevation (m AOD)	Screened Horizon (m bgl)	Geology	Date	Depth (m AOD)	Depth (m bgl)	NAPL (mm)	Remarks
						2023-01-31	227.50	11.28	-	Base dipped at 13.65m
						2023-02-02	227.48	11.30	-	Base dipped at 13.56m
						2023-02-14	227.40	11.38	-	Base dipped at 13.66m

J.2 Hydrographs


GCRE Washery Hydrograph All Monitoriong Wells
Water Level (m AOD)
260.00
250.00
240.00
230.00
220.00
210.00
200.00
190.00
2021-12-20
2022-03-30
2022-07-08
2022-10-16
2023-01-24
2023-05-04
2023-08-12
Date
BH29R
BH30R
BH31R (S)
BH31R (D)
BH32R
BH33R
BH34R (S)
BH34R (D)
S1-BH101
S1-BH102
S1-BH103
S1-BH105
S1-BH108
S1-BH112 (S)
S1-BH112 (D)
S1-BH113
S1-BH121
S1-BH122
S2-BH239 (S)
S2-BH239 (D)
S2-BH240
S2-BH242
S2-BH243 (S)
S2-BH243 (D)
S2-BH244 (S)
S2-BH244 (D)
S2-BH245
S2-BH246 (S)
S2-BH246 (D)
S2-BH248 (S)
S2-BH248 (D)
S2-BH249 (S)
S2-BH249 (D)
S2-BH250 (S)
S2-BH250 (D)
S2-BH252 (S)
S2-BH252 (D)
S2-BH261 (D)
S2-BH261 (S)
SOP003.16
S2-BH247 (S)
S2-BH247 (D)

Appendix K. Geo-Environmental Screening

K.1 Soil Screening

Assessment Criteria : *Commercial - 1% SOM Sand*

☐ **Use MRL Values?**

Constituent	Unit	Limit of Detection	Generic Assessment Criteria	Number of Samples	Minimum Value	Maximum Value	Number of Exceedances	Locations of Exceedances
ACM Type		N/A	No SSV	3	-	-	17	
Asbestos Identification		N/A	No SSV	91	-	-	3	S2-TP268, 1.9m; S2-TP2108, 0.5m; S2-TP2114, 0.2m
Asbestos by Gravimetry	%	0.001	No SSV	3	<0.001	0.001	1	S2-TP268, 1.9m; S2-TP2108, 0.5m; S2-TP2114, 0.2m
Total Asbestos	%	0.001	No SSV	3	<0.001	0.001	1	S2-TP268, 1.9m; S2-TP2108, 0.5m; S2-TP2114, 0.2m
Moisture	%	0.02	No SSV	105	0.98	75	0	
pH		4	No SSV	105	5.1	11.4	0	
Acid Neutralisation Capacity	mol/kg	0.002	No SSV	3	<0.012	<0.4	0	
Boron (Hot Water Soluble)	mg/kg	0.4	No SSV	105	<0.4	<10	0	
Sulphate (2:1 Water Soluble) as SO4 mg/l	mg/l	10	No SSV	103	<10	2100	0	
Cyanide (Free)	mg/kg	0.5	373	105	<0.5	<0.5	0	
Cyanide (Total)	mg/kg	0.5	No SSV	105	<0.5	0.5	0	
Arsenic	mg/kg	0.5	635	105	2.7	61	0	
Cadmium	mg/kg	0.1	410	105	<0.1	2.4	0	
Chromium	mg/kg	0.5	208000	105	1.2	300	0	
Copper	mg/kg	0.5	106000	105	7.8	540	0	
Mercury	mg/kg	0.05		105	<0.05	1.2	0	
Nickel	mg/kg	0.5	1770	105	5.2	81	0	
Lead	mg/kg	0.5	2310	105	10	1200	0	
Selenium	mg/kg	0.25	13000	105	0.42	9.3	0	
Vanadium	mg/kg	0.5	7490	105	3	190	0	
Zinc	mg/kg	0.5	1100000	105	16	1200	0	
Chromium (Hexavalent)	mg/kg	0.5	49.1	105	<0.5	<0.5	0	
Aliphatic VPH >C5-C6	mg/kg	0.05	4490	105	<0.05	0.58	0	
Aliphatic VPH >C6-C7	mg/kg	0.05	10400	105	<0.05	0.3	0	
Aliphatic VPH >C7-C8	mg/kg	0.05	No SSV	105	<0.05	0.23	0	
Aliphatic VPH >C8-C10	mg/kg	0.05	1370	105	<0.05	2	0	
Total Aliphatic VPH >C5-C10	mg/kg	0.25	No SSV	105	<0.25	11	0	
Aliphatic EPH >C10-C12	mg/kg	2	7900	105	<0.05	5.8	0	
Aliphatic EPH >C12-C16	mg/kg	1	34000	105	<1	30	0	
Aliphatic EPH >C16-C21	mg/kg	2	3620000	105	<2	63	0	
Aliphatic EPH >C21-C35	mg/kg	3	No SSV	105	<3	1200	0	
Aliphatic EPH >C35-C40	mg/kg	10	No SSV	105	<10	46	0	
Total Aliphatic EPH >C10-C35	mg/kg	5	No SSV	105	<5	1300	0	
Total Aliphatic EPH >C10-C40	mg/kg	10	No SSV	105	<10	1300	0	
Aromatic VPH >C5-C7	mg/kg	0.05	12.5	105	<0.05	0.36	0	
Aromatic VPH >C7-C8	mg/kg	0.05	27900	105	<0.05	0.29	0	
Aromatic VPH >C8-C10	mg/kg	0.05	2210	105	<0.05	0.28	0	
Total Aromatic VPH >C5-C10	mg/kg	0.25	No SSV	105	<0.25	0.94	0	
Aromatic EPH >C10-C12	mg/kg	1	12300	105	<1	27	0	
Aromatic EPH >C12-C16	mg/kg	1	41300	105	<1	98	0	
Aromatic EPH >C16-C21	mg/kg	2	No SSV	105	<2	430	0	
Aromatic EPH >C21-C35	mg/kg	2	28400	105	<2	650	0	
Aromatic EPH >C35-C40	mg/kg	1	No SSV	105	<1	110	0	
Total Aromatic EPH >C10-C35	mg/kg	5	No SSV	105	<5	1100	0	
Total Aromatic EPH >C10-C40	mg/kg	10	No SSV	105	<10	1200	0	
Total VPH >C5-C10	mg/kg	0.5	No SSV	105	<0.5	2.2	0	
Total EPH >C10-C35	mg/kg	10	No SSV	105	<10	1400	0	
Total EPH >C10-C40	mg/kg	10	No SSV	105	<10	1400	0	
Organic Matter	%	0.4	No SSV	105	<0.4	100	0	
Total Organic Carbon	%	0.2	No SSV	1	31	31	0	
Benzene	mg/kg	0.001	12.5	105	<0.001	0.0026	0	
Toluene	mg/kg	0.001	27900	105	<0.001	0.0046	0	
Ethylbenzene	mg/kg	0.001	7660	105	<0.001	<0.001	0	
m & p-Xylene	mg/kg	0.001	No SSV	105	<0.001	<0.001	0	
o-Xylene	mg/kg	0.001	3030	105	<0.001	0.0013	0	
Naphthalene	mg/kg	0.1	90.1	105	<0.1	21	0	
Acenaphthylene	mg/kg	0.1	No SSV	105	<0.1	1.3	0	
Acenaphthene	mg/kg	0.1	83600	105	<0.1	19	0	
Fluorene	mg/kg	0.1	66500	105	<0.1	15	0	
Phenanthrene	mg/kg	0.1	No SSV	105	<0.1	49	0	
Anthracene	mg/kg	0.1	535000	105	<0.1	7.7	0	
Fluoranthene	mg/kg	0.1	72200	105	<0.1	37	0	
Pyrene	mg/kg	0.1	54100	105	<0.1	32	0	
Benzo[a]anthracene	mg/kg	0.1	BaP Surrogate	105	<0.1	17	0	
Chrysene	mg/kg	0.1	BaP Surrogate	105	<0.1	21	0	
Benzo[b]fluoranthene	mg/kg	0.1	BaP Surrogate	105	<0.1	23	0	
Benzo[k]fluoranthene	mg/kg	0.1	BaP Surrogate	105	<0.1	8.4	0	
Benzo[a]pyrene	mg/kg	0.1	76.3	105	<0.1	13	0	
Indeno(1,2,3-c,d)Pyrene	mg/kg	0.1	BaP Surrogate	105	<0.1	6.6	0	
Dibenz(a,h)Anthracene	mg/kg	0.1	BaP Surrogate	105	<0.1	2.5	0	
Benzo[g,h,i]perylene	mg/kg	0.1	BaP Surrogate	105	<0.1	4.7	0	
Total Of 16 PAH's	mg/kg	2	No SSV	105	<2	180	0	
Total Phenols	mg/kg	0.1	No SSV	105	<0.1	0.43	0	

Constituent	S2-BH244	S2-BH244	S2-BH244	S2-BH244	S2-BH244	S2-BH246	S2-TP276	S2-TP276	S2-TP276	S2-BH249	S2-BH249	S2-TP2101
	S2-BH244	S2-BH244	S2-BH244	S2-BH244	S2-BH244	S2-BH246	S2-TP276	S2-TP276	S2-TP276	S2-BH249	S2-BH249	S2-TP2101
	0.5m	1m	1.8m	5.3m	8.3m	0.2m	0.3m	0.9m	3.9m	0.6m	1.1m	0.2m
	30-Mar-23	30-Mar-23	30-Mar-23	30-Mar-23	30-Mar-23	30-Mar-23	30-Mar-23	30-Mar-23	30-Mar-23	03-Apr-23	03-Apr-23	31-Mar-23
ACM Type	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos Identification										No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry												
Total Asbestos												
Moisture	5.8	6.7	6.8	26	11	3	9.6	7	6.1	3.9	4.3	3.6
pH	8.7	9.2	8.5	7.8	7.8	8.8	8.7	8.8	8.4	8	7.9	8.9
Acid Neutralisation Capacity												
Boron (Hot Water Soluble)	<0.4	<0.4	0.58	0.44	<0.4	<0.4	<0.4	0.43	<0.4	8	2.9	0.54
Sulphate (2:1 Water Soluble) as SO4 mg/l	<10	46	<10	63	<10	<10	<10	18	47	<10	<10	<10
Cyanide (Free)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide (Total)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic	16	6.4	15	11	7.7	10	21	12	9.7	61	41	7.9
Cadmium	0.18	0.17	0.14	0.12	0.13	0.64	0.15	0.1	0.16	0.2	0.2	0.22
Chromium	6.2	7.6	13	13	16	8.7	5.2	6.2	2.2	7.9	6.1	15
Copper	45	40	32	29	38	50	59	59	45	150	140	24
Mercury	0.21	0.09	0.09	<0.05	<0.05	0.06	0.32	0.25	0.34	0.21	0.19	<0.05
Nickel	35	26	35	20	39	15	28	27	32	36	32	21
Lead	30	33	40	18	18	25	40	62	49	83	47	20
Selenium	1.3	2.3	0.94	0.73	0.68	0.77	3.4	3.4	2.5	1.7	1.3	0.77
Vanadium	9.2	9.5	19	14	18	8.9	7.6	7.1	3.9	11	8.7	9.3
Zinc	72	78	59	59	100	72	64	45	54	83	82	53
Chromium (Hexavalent)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aliphatic VPH >C5-C6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.11	0.12	<0.05
Aliphatic VPH >C6-C7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aliphatic VPH >C7-C8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aliphatic VPH >C8-C10	<0.05	<0.05	0.98	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	0.16	0.13
Total Aliphatic VPH >C5-C10	<0.25	<0.25	0.98	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.28	<0.25
Aliphatic EPH >C10-C12	2.1	2.1	2.4	3.1	2.4	2.5	2.5	2.4	<2	<2	<2	<2
Aliphatic EPH >C12-C16	3.1	3.1	5	3.8	2.7	3.8	3.3	3	3.4	1.6	1.4	1.1
Aliphatic EPH >C16-C21	2.8	3	5	3.4	2.6	2.7	2.5	2.6	2.3	<2	2.1	<2
Aliphatic EPH >C21-C35	4.8	7.4	13	5.7	5.3	4.2	5.2	4.5	4	3.4	<3	3.2
Aliphatic EPH >C35-C40	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aliphatic EPH >C10-C35	13	16	25	16	13	13	14	12	12	7.7	7.7	6.1
Total Aliphatic EPH >C10-C40	13	16	25	16	13	13	14	12	12	<10	<10	<10
Aromatic VPH >C5-C7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.21	<0.05
Aromatic VPH >C7-C8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.16	<0.05
Aromatic VPH >C8-C10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.2	<0.05
Total Aromatic VPH >C5-C10	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.57	<0.25
Aromatic EPH >C10-C12	12	13	27	17	12	12	12	12	8.2	8.4	8.1	1.8
Aromatic EPH >C12-C16	19	22	98	27	18	18	17	19	19	13	13	1.3
Aromatic EPH >C16-C21	16	22	140	25	20	24	18	17	19	19	17	6.8
Aromatic EPH >C21-C35	<2	<2	86	4.5	2.1	6.4	3.5	3.3	6.2	<2	<2	<2
Aromatic EPH >C35-C40	8.7	8	10	11	9.1	8	9.3	9.3	8.2	8.5	8.3	1.4
Total Aromatic EPH >C10-C35	49	58	350	73	52	60	51	52	53	40	38	11
Total Aromatic EPH >C10-C40	57	66	360	84	61	68	60	61	61	49	47	12
Total VPH >C5-C10	<0.5	<0.5	0.98	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.85	<0.5
Total EPH >C10-C35	61	74	380	89	65	73	64	64	64	48	46	17
Total EPH >C10-C40	70	82	390	99	74	81	74	73	73	57	54	18
Organic Matter	39	63	27	5.5	1.5	19	26	32	47	27	39	29
Total Organic Carbon												
Benzene	0.0017	<0.001	0.0013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	<0.001	<0.001	0.0027	0.0022	0.0012	<0.001	<0.001	<0.001	0.0014	<0.001	<0.001	<0.001
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	<0.001	<0.001	0.0013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Naphthalene	0.22	3.5	2.9	21	0.2	0.81	0.34	0.31	1.6	<0.1	0.39	1.1
Acenaphthylene	<0.1	<0.1	0.27	0.26	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	<0.1	3.2	3.7	19	<0.1	0.15	<0.1	<0.1	0.1	<0.1	<0.1	0.14
Fluorene	<0.1	2.6	1.5	15	<0.1	0.19	<0.1	<0.1	0.41	<0.1	<0.1	0.17
Phenanthrene	0.45	10	22	49	0.36	1.4	0.34	<0.1	0.91	<0.1	0.13	1
Anthracene	0.11	3.8	3.9	7.7	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	0.21
Fluoranthene	0.75	5.2	14	19	0.16	1.9	<0.1	<0.1	<0.1	<0.1	<0.1	1.1
Pyrene	0.75	3.9	10	14	0.14	1.3	<0.1	<0.1	<0.1	<0.1	<0.1	0.86
Benzo[a]anthracene	0.3	<0.1	3	4	<0.1	0.59	<0.1	<0.1	<0.1	<0.1	<0.1	0.44
Chrysene	0.41	0.81	2.8	3.6	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	0.79
Benzo[b]fluoranthene	0.48	1	4	3.2	<0.1	1.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.93
Benzo[k]fluoranthene	0.15	0.34	1	1	<0.1	0.43	<0.1	<0.1	<0.1	<0.1	<0.1	0.24
Benzo[a]pyrene	0.42	0.66	2.7	2.1	<0.1	0.63	<0.1	<0.1	<0.1	<0.1	<0.1	0.29
Indeno(1,2,3-c,d)Pyrene	0.31	<0.1	1.6	0.95	<0.1	0.51	<0.1	<0.1	<0.1	<0.1	<0.1	0.3
Dibenz(a,h)Anthracene	<0.1	<0.1	<0.1	0.21	<0.1	0.34	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[g,h,i]perylene	<0.1	<0.1	1.9	0.83	<0.1	0.54	<0.1	<0.1	<0.1	<0.1	<0.1	0.26
Total Of 16 PAH's	4.4	35	75	160	<2	11	<2	<2	3	<2	<2	7.8
Total Phenols	<0.1	<0.1	0.43	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Constituent	S2-TP2101	S2-TP2101	S2-TP2112	S2-TP2112	S2-TP2112	S2-BH246	S2-BH246	S2-TP268	S2-TP268	S2-TP277	S2-TP277
	S2-TP2101	S2-TP2101	S2-TP2112	S2-TP2112	S2-TP2112	S2-BH246	S2-BH246	S2-TP268	S2-TP268	S2-TP277	S2-TP277
	2.9m	3.9m	0.2m	0.9m	2.9m	1.5m	3.7m	0.5m	1.9m	0.2m	0.5m
	31-Mar-23	31-Mar-23	31-Mar-23	31-Mar-23	31-Mar-23	31-Mar-23	31-Mar-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23
ACM Type	-	-	-	-	-	-	-	-	Fibres/Clumps	-	-
Asbestos Identification	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected			No Asbestos Detected	Chrysotile	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry									<0.001		
Total Asbestos									<0.001		
Moisture	11	9.5	7.1	7.7	7.4	4.6	24	11	13	14	8.7
pH	8.7	8.7	9	8.2	8.9	8.9	7.7	9.1	9.1	9.3	9
Acid Neutralisation Capacity											
Boron (Hot Water Soluble)	<0.4	0.51	0.49	0.44	<0.4	0.61	0.91	3.1	4.5	2.3	0.97
Sulphate (2:1 Water Soluble) as SO4 mg/l	<10	<10	77	<10	87	<10	30	990	600	410	160
Cyanide (Free)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide (Total)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic	11	9	3.8	19	14	8.6	24	8.3	9	17	27
Cadmium	0.13	0.1	0.26	0.18	0.18	0.12	0.12	0.54	0.55	0.62	1.9
Chromium	3.7	2.1	8.1	4.2	8.6	5.7	10	10	10	11	8.1
Copper	59	42	13	100	59	39	7.8	45	44	71	94
Mercury	0.36	0.26	0.06	0.21	0.15	0.2	0.05	0.15	0.16	0.09	0.28
Nickel	27	15	16	27	30	19	7.1	14	15	32	29
Lead	36	23	14	38	36	22	23	54	55	49	55
Selenium	1.4	1.6	0.93	1.3	1.3	1.3	1	2.4	2.4	1.2	3
Vanadium	7.6	3.9	6	7	7.3	7.1	17	9.7	16	10	12
Zinc	48	42	26	55	65	51	22	130	110	110	230
Chromium (Hexavalent)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aliphatic VPH >C5-C6	<0.05	<0.05	<0.05	<0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aliphatic VPH >C6-C7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aliphatic VPH >C7-C8	<0.05	<0.05	0.14	<0.05	<0.05	<0.05	<0.05	<0.05	0.23	<0.05	<0.05
Aliphatic VPH >C8-C10	0.21	0.16	0.22	0.13	0.17	0.19	<0.05	<0.05	<0.05	<0.05	<0.05
Total Aliphatic VPH >C5-C10	<0.25	<0.25	0.36	<0.25	0.28	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Aliphatic EPH >C10-C12	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Aliphatic EPH >C12-C16	<1	<1	<1	<1	<1	1.3	1.5	4.9	1.1	1.8	8
Aliphatic EPH >C16-C21	<2	2.6	<2	<2	<2	<2	<2	14	<2	2.7	4.8
Aliphatic EPH >C21-C35	5.6	7.9	<3	<3	<3	3.6	<3	12	6.6	5.8	<3
Aliphatic EPH >C35-C40	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aliphatic EPH >C10-C35	8.8	12	<5	<5	<5	7.6	5.6	32	10	11	16
Total Aliphatic EPH >C10-C40	<10	12	<10	<10	<10	<10	<10	32	10	11	16
Aromatic VPH >C5-C7	0.23	0.16	0.36	0.13	0.18	0.26	<0.05	<0.05	<0.05	<0.05	<0.05
Aromatic VPH >C7-C8	0.21	0.11	0.29	0.13	0.16	0.14	<0.05	0.14	<0.05	<0.05	<0.05
Aromatic VPH >C8-C10	0.23	<0.05	0.28	0.12	0.17	0.24	<0.05	<0.05	<0.05	<0.05	<0.05
Total Aromatic VPH >C5-C10	0.68	0.28	0.94	0.37	0.51	0.64	<0.25	<0.25	<0.25	<0.25	<0.25
Aromatic EPH >C10-C12	<1	1.1	2.6	1.5	1.1	<1	1.9	<1	<1	1.6	<1
Aromatic EPH >C12-C16	1.1	1.8	<1	1.1	4.2	1.3	2.9	2.4	1.4	2.4	1.1
Aromatic EPH >C16-C21	5.1	5.7	4.9	5.2	10	5.3	6.2	25	13	28	9.5
Aromatic EPH >C21-C35	<2	<2	<2	2.2	<2	<2	<2	5.4	12	14	50
Aromatic EPH >C35-C40	1.6	<1	1.8	1.6	<1	1.6	2.1	<1	1.1	1.4	2.6
Total Aromatic EPH >C10-C35	7.7	9.2	9.2	10	15	8.1	13	33	27	47	61
Total Aromatic EPH >C10-C40	<10	<10	11	12	15	<10	15	33	28	48	64
Total VPH >C5-C10	0.68	<0.5	1.3	<0.5	0.78	0.64	<0.5	<0.5	<0.5	<0.5	<0.5
Total EPH >C10-C35	17	21	13	14	19	16	18	65	37	57	78
Total EPH >C10-C40	18	21	15	16	19	17	20	65	38	59	80
Organic Matter	87	92	22	30	19	46	8.2	57	66	23	49
Total Organic Carbon											
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Naphthalene	0.16	0.24	0.32	0.18	0.61	0.16	<0.1	1.4	1.9	1.1	0.82
Acenaphthylene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	<0.1	<0.1	<0.1	<0.1	0.12	<0.1	<0.1	0.59	0.63	1.4	<0.1
Fluorene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.72	0.75	0.78	<0.1
Phenanthrene	<0.1	0.16	0.23	<0.1	0.28	<0.1	<0.1	5	3.9	6.2	1.5
Anthracene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.4	1.1	1.7	0.33
Fluoranthene	<0.1	0.16	<0.1	<0.1	0.13	<0.1	<0.1	5.4	3.7	7.4	1.3
Pyrene	<0.1	0.13	<0.1	<0.1	0.12	<0.1	<0.1	4.7	3.5	6.7	1.2
Benzo[a]anthracene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.4	1.8	3.3	0.77
Chrysene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3.2	2.2	3.9	0.89
Benzo[b]fluoranthene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3.1	2.2	3.9	1.1
Benzo[k]fluoranthene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.91	0.67	1.3	0.44
Benzo[a]pyrene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.4	1.2	3.3	0.71
Indeno(1,2,3-c,d)Pyrene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.9	1.2	2.4	0.61
Dibenz(a,h)Anthracene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.43	<0.1	0.34	<0.1
Benzo[g,h,i]perylene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.5	0.95	1.9	0.5
Total Of 16 PAH's	<2	<2	<2	<2	<2	<2	<2	35	26	46	10
Total Phenols	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.21	<0.1	<0.1	<0.1

Constituent	S2-TP277	S2-TP294	S2-TP294	S2-TP294	S2-TP261	S2-TP261	S2-TP261	S2-TP266	S2-TP266	S2-TP266	S2-BH245
	S2-TP277	S2-TP294	S2-TP294	S2-TP294	S2-TP261	S2-TP261	S2-TP261	S2-TP266	S2-TP266	S2-TP266	S2-BH245
	1.9m	0.2m	0.9m	2.9m	0.2m	0.9m	2.9m	0.2m	0.9m	1.9m	0.2m
	03-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	05-Apr-23
ACM Type	-	-	-	-	-	-	-	-	-	-	-
Asbestos Identification	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry											
Total Asbestos											
Moisture	31	12	8.7	11	11	18	13	10	6.2	20	13
pH	8.9	8.7	5.8	8.8	8.8	6.3	6.9	7.3	8.7	6.9	9
Acid Neutralisation Capacity											
Boron (Hot Water Soluble)	0.87	<0.4	<0.4	<0.4	<0.4	0.49	<0.4	0.46	<0.4	<0.4	<0.4
Sulphate (2:1 Water Soluble) as SO4 mg/l	150	55	<10	10	40	13	27	67	66	43	23
Cyanide (Free)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide (Total)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic	20	4.6	12	7.3	7.7	8.6	7.3	10	12	10	12
Cadmium	0.42	0.64	0.19	<0.1	0.12	0.34	0.14	0.11	0.74	0.1	0.38
Chromium	16	3.7	12	10	4.6	13	3.5	11	7.8	8.7	6.6
Copper	76	35	83	28	34	20	28	31	50	27	46
Mercury	0.2	0.15	0.8	0.09	0.1	0.08	0.06	0.07	0.13	0.06	0.08
Nickel	23	9.7	22	29	15	11	25	20	47	18	35
Lead	42	61	150	18	25	18	15	23	79	20	27
Selenium	2.3	1.1	0.91	0.71	1	1.9	0.84	1.1	0.81	0.92	0.93
Vanadium	26	4.1	16	9.9	5.8	17	5.8	15	12	13	8.8
Zinc	84	130	140	70	49	28	16	55	150	50	90
Chromium (Hexavalent)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aliphatic VPH >C5-C6	<0.05	0.3	0.14	0.4	0.15	0.58	0.15	0.18	0.26	0.21	<0.05
Aliphatic VPH >C6-C7	<0.05	0.12	<0.05	0.19	<0.05	0.3	<0.05	<0.05	<0.05	0.13	<0.05
Aliphatic VPH >C7-C8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aliphatic VPH >C8-C10	0.17	<0.05	<0.05	<0.05	<0.05	0.82	<0.05	<0.05	<0.05	<0.05	<0.05
Total Aliphatic VPH >C5-C10	<0.25	0.42	<0.25	0.6	<0.25	1.7	<0.25	<0.25	0.26	0.34	<0.25
Aliphatic EPH >C10-C12	<2	2.2	<2	<2	2.1	<2	<2	<2	<2	<2	<2
Aliphatic EPH >C12-C16	1.2	3.9	1.6	1.5	3.7	1.9	1.6	2.3	1.9	<1	<1
Aliphatic EPH >C16-C21	<2	5.3	<2	<2	4	<2	<2	2.1	<2	<2	<2
Aliphatic EPH >C21-C35	<3	13	3.3	<3	8.5	3.3	4.4	<3	5.2	4.1	12
Aliphatic EPH >C35-C40	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aliphatic EPH >C10-C35	5.8	24	7.8	7.2	18	8.4	9.5	8.7	10	5.4	13
Total Aliphatic EPH >C10-C40	<10	24	<10	<10	18	<10	<10	<10	10	<10	13
Aromatic VPH >C5-C7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aromatic VPH >C7-C8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aromatic VPH >C8-C10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Aromatic VPH >C5-C10	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Aromatic EPH >C10-C12	1.1	8	8.6	6.4	9.8	8.8	7.9	7.6	7.4	<1	<1
Aromatic EPH >C12-C16	1.8	15	12	14	14	15	13	16	11	1.2	1.5
Aromatic EPH >C16-C21	7.4	15	12	14	16	14	15	12	12	12	11
Aromatic EPH >C21-C35	6.2	31	3.9	<2	6.5	5.4	<2	<2	<2	<2	4.3
Aromatic EPH >C35-C40	2.6	10	8.1	7.2	7.3	7.8	8	8.9	7.7	1.6	6.1
Total Aromatic EPH >C10-C35	17	69	37	35	46	42	36	36	31	14	17
Total Aromatic EPH >C10-C40	19	79	45	42	53	50	44	45	38	16	23
Total VPH >C5-C10	<0.5	<0.5	<0.5	0.6	<0.5	1.7	<0.5	<0.5	<0.5	<0.5	<0.5
Total EPH >C10-C35	22	93	44	42	64	51	45	45	41	20	31
Total EPH >C10-C40	25	100	52	49	71	59	53	54	49	21	37
Organic Matter	41	100	2.7	5.5	88	17	87	18	11	15	21
Total Organic Carbon											
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	<0.001	0.0012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0012
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Naphthalene	0.63	1.9	<0.1	<0.1	1.7	<0.1	<0.1	<0.1	<0.1	<0.1	0.2
Acenaphthylene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	0.22	0.34	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	0.2	0.4	<0.1	<0.1	0.24	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	1.4	1.3	<0.1	<0.1	1.7	0.12	<0.1	<0.1	<0.1	<0.1	0.41
Anthracene	0.31	0.29	<0.1	<0.1	0.32	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	1.3	0.96	<0.1	<0.1	0.89	<0.1	<0.1	<0.1	<0.1	<0.1	0.44
Pyrene	1.2	0.8	<0.1	<0.1	0.63	<0.1	<0.1	<0.1	<0.1	<0.1	0.32
Benzo[a]anthracene	0.59	0.45	<0.1	<0.1	0.34	<0.1	<0.1	<0.1	<0.1	<0.1	0.16
Chrysene	0.83	0.7	<0.1	<0.1	0.52	<0.1	<0.1	<0.1	<0.1	<0.1	0.26
Benzo[b]fluoranthene	0.83	0.97	<0.1	<0.1	0.54	<0.1	<0.1	<0.1	<0.1	<0.1	0.42
Benzo[k]fluoranthene	0.18	0.25	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[a]pyrene	0.51	0.31	<0.1	<0.1	0.24	<0.1	<0.1	<0.1	<0.1	<0.1	0.23
Indeno(1,2,3-c,d)Pyrene	<0.1	0.3	<0.1	<0.1	0.51	0.2	<0.1	<0.1	<0.1	<0.1	0.22
Dibenz(a,h)Anthracene	<0.1	<0.1	<0.1	<0.1	0.65	0.35	<0.1	<0.1	<0.1	<0.1	0.19
Benzo[g,h,i]perylene	0.36	0.26	<0.1	<0.1	0.46	0.18	<0.1	<0.1	<0.1	<0.1	0.16
Total Of 16 PAH's	8.6	9.2	<2	<2	8.9	<2	<2	<2	<2	<2	3
Total Phenols	<0.1	0.13	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Assessment Criteria :	Commercial - 1% SOM Sand
☐ Use MRL Values?	

Constituent	Unit	Limit of Detection	Generic Assessment Criteria	Number of Samples	Minimum Value	Maximum Value	Number of Exceedances	Locations of Exceedances	S2-BH245	S2-BH249	S2-BH249	S2-TP263	S2-TP263	S2-TP263	S2-TP267	S2-TP267	S2-BH245	S2-BH245	S2-TP262	S2-TP262	S2-TP260	S2-TP260	S2-TP260	S2-TP275	S2-TP271	S2-TP271	S2-TP271	S2-TP270	S2-TP270	S2-TP270	S2-BH250	S2-BH250	S2-BH248	S2-TP2100	S2-TP2100	S2-TP2100	S2-TP2110	S2-TP2110	S2-TP2110	S2-BH252	S2-BH252	S2-TP2115	S2-TP2115	S2-TP2115
									S2-BH245	S2-BH249	S2-BH249	S2-TP263	S2-TP263	S2-TP263	S2-TP267	S2-TP267	S2-BH245	S2-BH245	S2-TP262	S2-TP262	S2-TP260	S2-TP260	S2-TP260	S2-TP275	S2-TP271	S2-TP271	S2-TP271	S2-TP270	S2-TP270	S2-TP270	S2-BH250	S2-BH250	S2-BH248	S2-TP2100	S2-TP2100	S2-TP2100	S2-TP2110	S2-TP2110	S2-TP2110	S2-BH252	S2-BH252	S2-TP2115	S2-TP2115	S2-TP2115
									0.9m	1.5m	3.2m	0.2m	0.9m	2.7m	0.5m	1.4m	1.7m	3.6m	0.2m	0.9m	0.2m	0.5m	1.9m	1.9m	0.2m	0.9m	1.9m	0.2m	0.5m	0.9m	0.2m	0.9m	0.5m	0.2m	0.9m	3.9m	0.2m	0.9m	2.9m	0.5m	1.1m	0.2m	2.9m	0.9m
									05-Apr-23	05-Apr-23	05-Apr-23	05-Apr-23	05-Apr-23	05-Apr-23	05-Apr-23	05-Apr-23	06-Apr-23	06-Apr-23	05-Apr-23	05-Apr-23	05-Apr-23	05-Apr-23	05-Apr-23	11-Apr-23	11-Apr-23	11-Apr-23	11-Apr-23	11-Apr-23	11-Apr-23	11-Apr-23	11-Apr-23	11-Apr-23	11-Apr-23	11-Apr-23	11-Apr-23	11-Apr-23	11-Apr-23	11-Apr-23	11-Apr-23	11-Apr-23	11-Apr-23	12-Apr-23	12-Apr-23	12-Apr-23
ACM Type		N/A	No SSV	3	-	-	17		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos Identification		N/A	No SSV	91	-	-	3	S2-TP268, 1.9m; S2-TP2108, 0.5m; S2-TP2114, 0.2m	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected				No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	%	0.001	No SSV	3	<0.001	0.001	1	S2-TP268, 1.9m; S2-TP2108, 0.5m; S2-TP2114, 0.2m																																				
Total Asbestos	%	0.001	No SSV	3	<0.001	0.001	1	S2-TP268, 1.9m; S2-TP2108, 0.5m; S2-TP2114, 0.2m																																				
Moisture	%	0.02	No SSV	105	0.98	75	0		9.3	17	14	7.5	15	16	15	8.6	11	16	19	15	9.5	8.3	20	12	10	11	8.2	5.4	6.6	10	14	31	8.5	10	12	19	7.8	11	11	10	23	17	75	17
pH		4	No SSV	105	5.1	11.4	0		9.2	7.3	11.4	8.5	8.9	8.7	8.8	9	8.3	7.9	8.9	8.6	8.9	9.3	8.7	7.6	7.7	7.6	7.5	7.8	7.7	7.8	7.6	7.5	7.6	7.5	7.7	5.1	6.4	6.9	7.2	7.1	7.3	7.9	8	8.2
Acid Neutralisation Capacity	mol/kg	0.002	No SSV	3	<0.012	<0.4	0																																					
Boron (Hot Water Soluble)	mg/kg	0.4	No SSV	105	<0.4	<10	0		<0.4	<0.4	<0.4	<0.4	0.48	<0.4	<0.4	<0.4	<0.4	0.83	<0.4	<0.4	0.5	0.59	<0.4	0.59	0.52	0.49	1.2	1.4	0.53	0.59	<0.4	<0.4	<0.4	0.5	0.46	0.62	<0.4	<0.4	0.43	0.43	0.57	6.2	6	<0.4
Sulphate (2:1 Water Soluble) as SO4 mg/l	mg/l	10	No SSV	103	<10	2100	0		18	150	300	82	110	71	33	33	38	43	64	82	31	28	45	98	29	190	56	17	200	110	25	<10	<10	200	200	42	<10	18	94	84	69	<10	<10	22
Cyanide (Free)	mg/kg	0.5	373	105	<0.5	<0.5	0		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide (Total)	mg/kg	0.5	No SSV	105	<0.5	0.5	0		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic	mg/kg	0.5	635	105	2.7	61	0		9.4	6.2	10	6.4	12	11	6.9	8.3	11	8.2	4.4	11	8.2	7.1	14	20	14	17	13	8.2	8.1	36	22	32	7.7	10	11	5.9	5.6	8.4	19	16	21	44	25	33
Cadmium	mg/kg	0.1	410	105	<0.1	2.4	0		0.28	<0.1	0.58	0.27	0.26	0.12	0.15	<0.1	0.11	0.11	<0.1	0.4	<0.1	<0.1	<0.1	0.34	0.3	0.29	0.64	0.22	0.16	0.34	0.18	<0.1	0.21	0.17	0.14	<0.1	0.32	0.18	0.4	0.36	0.44	0.84	1.9	2.4
Chromium	mg/kg	0.5	208000	105	1.2	300	0		5.3	1.2	5.5	23	7.3	7.2	5	2.4	8.8	12	13	8.1	1.5	5.8	1.9	8.8	6.2	6.1	6.1	3.4	5.1	16	8.8	16	5.2	5.1	5.7	15	7.7	4.8	16	15	10	30	17	19
Copper	mg/kg	0.5	106000	105	7.8	540	0		36	40	29	24	42	36	40	63	36	27	21	48	33	50	23	64	47	54	33	58	58	270	60	52	38	52	73	23	48	47	51	47	93	190	220	270
Mercury	mg/kg	0.05		105	<0.05	1.2	0		0.08	0.74	0.21	0.11	0.12	0.11	0.18	0.21	0.07	0.06	0.07	0.16	0.13	0.17	0.49	0.21	0.15	0.21	0.06	0.06	0.11	0.87	1.2	<0.05	0.06	0.19	0.25	<0.05	0.09	0.25	0.09	0.09	0.23	0.2	0.22	0.27
Nickel	mg/kg	0.5	1770	105	5.2	81	0		32	11	19	13	30	25	13	21	27	30	9.3	23	15	25	5.2	34	26	28	35	35	35	45	31	30	26	26	28	17	51	21	72	56	48	64	43	54
Lead	mg/kg	0.5	2310	105	10	1200	0		33	59	23	30	34	19	25	28	20	18	20	46	31	28	24	51	38	39	20	40	1200	100	29	13	21	110	43	24	30	29	42	32	55	95	330	400
Selenium	mg/kg	0.25	13000	105	0.42	9.3	0		0.85	2.4	2.8	1.1	1.1	1.1	0.76	2.1	0.71	0.88	0.85	1.4	1.8	1.8	2.8	1.9	1.7	1.5	0.75	0.91	1.3	1.2	1.4	1.8	0.87	9.3	2.8	0.56	1.1	1	1.3	1	2.2	2	1.2	1.6
Vanadium	mg/kg	0.5	7490	105	3	190	0		7.3	3	12	25	11	11	6.2	5.1	13	12	16	12	3.4	13	6.1	12	11	9.9	12	5.9	8	12	18	45	7.8	7.8	9.2	13	12	7.5	24	24	16	53	30	36
Zinc	mg/kg	0.5	1100000	105	16	1200	0		79	30	62	49	93	68	59	42	77	71	21	92	35	44	22	100	80	86	100	110	93	210	47	27	72	61	61	51	140	62	110	94	130	170	330	410
Chromium (Hexavalent)	mg/kg	0.5	49.1	105	<0.5	<0.5	0		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aliphatic VPH >C5-C6	mg/kg	0.05	4490	105	<0.05	0.58	0		<0.05	<0.05	<0.05	0.22	<0.05	<0.05	<0.05	<0.05	0.18	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aliphatic VPH >C6-C7	mg/kg	0.05	10400	105	<0.05	0.3	0		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aliphatic VPH >C7-C8	mg/kg	0.05	No SSV	105	<0.05	0.23	0		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aliphatic VPH >C8-C10	mg/kg	0.05	1370	105	<0.05	2	0		<0.05	<0.05	0.52	2	<0.05	<0.05	<0.05	<0.05	0.16	<0.05	0.57	0.44	0.31	0.35	0.55	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.14	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Aliphatic VPH >C5-C10	mg/kg	0.25	No SSV	105	<0.25	11	0		<0.25	<0.25	0.52	2.2	<0.25	<0.25	<0.25	<0.25	0.33	<0.25	0.57	0.44	0.31	0.35	0.55	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Aliphatic EPH >C10-C12	mg/kg	2	7900	105	<0.05	5.8	0		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	4.7	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2.8	3	2.9	2.3	5.8	2.7	2.4	2.1	2.2	2.1	2.9	<2	4.1	<2
Aliphatic EPH >C12-C16	mg/kg	1	34000	105	<1	30	0		<1	<1	<1	<1	1.1	<1	<1	<1	<1	<1	11	4	1.2	<1	<1	2.3	3.4	6.6	1.2	<1	<1	2.7	2.4	3.1	2.6	2.4	30	2.5	18	2.2	2.2	2.2	2.8	3.8	6.5	2.5
Aliphatic EPH >C16-C21	mg/kg	2	3620000	105	<2	63	0		<2	<2	<2	<2	5.6	<2	2.2	<2	<2	<2	10	4.9	<2	<2	<2	2.7	5.8	12	<2	<2	<2	8.7	<2	3.1	<2	<2	63	<2	36	<2	<2	<2	<2	5.2	16	3.6
Aliphatic EPH >C21-C35	mg/kg	3	No SSV	105	<3	1200	0		<3	<3	4.2	11	77	<3	3.7	4.3	<3	5.4	22	19	3.3	<3	3.3	5.8	11	6.4	<3	<3	<3	11	4.2	5.1	4.8	3.1	21	3.9	1200	5.1	3.1	3.5	4	8.8	38	5.5
Aliphatic EPH >C35-C40	mg/kg	10	No SSV	105	<10	46	0		<10	<10	<10	<10	31	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aliphatic EPH >C10-C35	mg/kg	5	No SSV	105	<5	1300	0		<5	<5	5.7	15	84	<5	6.7	5	<5	5.8	48	29	7	<5	<5	11	21	26	5.1	<5	<5	24	11	14	12	9.1	120	10	1300	11	8.5	9.3	12	20	64	12
Total Aliphatic EPH >C10-C40	mg/kg	10	No SSV	105	<10	1300	0		<10	<10	<10	15	110	<10	<10	<10	<10	<10	48	29	<10	<10	<10	11	21	26	<10	<10	<10	24	11	14	12	<10	120	10	1300	11	<10	<10	12	20	64	12
Aromatic VPH >C5-C7	mg/kg	0.05	12.5	105	<0.05	0.36	0		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aromatic VPH >C7-C8	mg/kg	0.05	27900	105	<0.05	0.29	0		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aromatic VPH >C8-C10	mg/kg	0.05	2210	105	<0.05	0.28	0		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Aromatic VPH >C5-C10	mg/kg	0.25	No SSV	105	<0.25	0.94	0		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Aromatic EPH >C10-C12	mg/kg	1	12300	105	<1	27	0		1.5	1.6	1.3	1	<1	1.2	<1	1.6	1.2	1.1	1.5	2.1	<1	1.2	1.1	1.8	1.8	1.1	1	1.7	2.1	1.5	17	23	17	15	17	17	15	17	16	15	19	9	22	7.6
Aromatic EPH >C12-C16	mg/kg	1	41300	105	<1	98	0		1.6	1.9	1.3	1.8	2	1.4	1.9	1.9	<1	<1	2.4	1.4	<1	1.5	1.1	2.7	2.1	2.4	2.3	2.8	1.9	5.9	18	21	16	16	20	18	17	17	17	17	20	14	34	12
Aromatic EPH >C16-C21	mg/kg	2	No SSV	105	<2	430	0		12	12	9.9	10	4.2	12	11	9	12	13	11	16	11	9.6	11	8.5	9.1	12	6.2	5.9	5.3	15	13	19	14	13	16	14	13	14	11	18	14	120	68	19
Aromatic EPH >C21-C35	mg/kg	2	28400	105	<2	650	0		<2	<2	<2	<2	23	<2	14	<2	<2	<2	8.6	11	<2	<2	<2	5.4	14	14	2.5	<2	2	21	2.3	<2	<2	<2	12	<2	26	<2	<2	7.9	<2	250	530	41
Aromatic EPH >C35-C40	mg/kg	1	No SSV	105	<1	110	0		<1	1.6	<1	1.4	6	<1	1.3	1.2	<1	<1	1.9	5.1	<1	<1	1.9	1.9	1.9	2	1.7	1.2	2.1	2.5	8.2	9.5	6.6	7	8.9	7	2	6.9	8.2	7.6	8.7	8.4	110	5.4
Total Aromatic EPH >C10-C35	mg/kg	5	No SSV	105	<5	1100	0		15	15	13	14	30	14	28	14	14	14	23	30	12	12	13	18	27	30	12	12	11	44	51	63	47	45	64	50	71	48	43	58	53	390	650	79
Total Aromatic EPH >C10-C40	mg/kg	10	No SSV	105	<10	1200	0		15	17	13	15	36	14	29	15	14	14	25	35	12	12	15	20	29	32	14	13	13	46	59	73	54	52	73	57	73	55	51	66	62	400	770	84
Total VPH >C5-C10	mg/kg	0.5	No SSV	105	<0.5	2.2	0		<0.5	<0.5	0.52	2.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.57	<0.5	<0.5	<0.5	0.55	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total EPH >C10-C35	mg/kg	10	No SSV	105	<10	1400	0		17	19	19	28	110	18	35	19	16	20	72	59	19	16	18	30	48	56	17	14	15	67	62	77	59	54	180	60	1400	59	52	67	65	410	710	91
Total EPH >C10-C40	mg/kg	10	No SSV	105	<10	1400	0		17	20	19	30	150	18	36	20	16	20	73	65	19	16	20	32	50	58	19	16	17	70	70	87	66	61	190	67	1400	66	60	75	73	420	830	97
Organic Matter	%	0.4	No SSV	105	<0.4	100	0		2.8	100	50	53	90	9	67	32	2	5.7	100	70	54	59	<0.4	53	65	41	2.8	3.7	4.7	62	37	58	39	28	37	2.3	17	78	17	11	56	74	49	56
Total Organic Carbon	%	0.2	No SSV	1	31	31	0																																					
Benzene	mg/kg	0.001	12.5	105	<0.001	0.0026	0		<0.001	<0.001	0.0026	<0.001	0.0015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	mg/kg	0.001	27900	105	<0.001	0.0046	0		0.0022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	mg/kg	0.001	7660	105	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p-Xylene	mg/kg	0.001	No SSV	105	<0.001	<0.001	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	mg/kg	0.001	3030	105	<0.001	0.0013	0		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Naphthalene	mg/kg	0.1	90.1	105	<0.1	21	0		0.15	0.15	0.12	0.67	1.2	<0.1	1.4	<0.1	<0.1	<0.1	<0.1	1.1	0.43	<0.1	<0.1	1.8	1.4	1.7	<0.1	1.6	2.4	2.2	2.3	1.3	1.6	1.5	1.5	0.37	1	1.4	1.1	1.2	1.8	2.2	<0.1	1.5
Acenaphthylene	mg/kg	0.1	No SSV	105	<0.1	1.3	0		<0.1	<0.1	<0.1	0.64	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.19	0.19	0.19	<0.1	<0.1	<0.1	0.43	0.2	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.13	0.21	0.23	1.3	<0.1	<0.1
Acenaphthene	mg/kg	0.1	83600	105	<0.1	19	0		<0.1	<0.1	<0.1	0.63	0.41	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.3	0.95	1.4	<0.1	1.4	2.1	1.6	1.9	1.2	1.4	1.1	1.1	0.48	0.87	1	1.2	1.3	1.2	0.36	<0.1	<0.1
Fluorene	mg/kg	0.1	66500	105	<0.1	15	0		<0.1	<0.1	<0.1	0.95	0.38	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.61	0.45	0.51	<0.1	0.34	0.58	0.69	0.57	0.18	0.36	0.48	0.55	0.15	0.36	0.34	0.59	0.64	0.6	0.31	<0.1	<0.1
Phenanthrene	mg/kg	0.1	No SSV	105	<0.1	49	0		0.27	0.19	0.17	2.2	1.5	<0.1	1.9	<0.1	<0.1	<0.1	<0.1	1.2	<0.1	<0.1	<0.1	1.9	1.2	1.7	<0.1	0.2	0.48	3.6	0.6	<0.1	0.41	1.3	1.3	0.2	0.27	1.7	1.8	2	1.5	4.5	<0.1	2.2
Anthracene	mg/kg	0.1	535000	105	<0.1	7.7	0		<0.1	<0.1	<0.1	1.3	0.6	<0.1	0.29	<0.1	<0.1	<0.1	<0.1	0.29	<0.1	<0.1	<0.1	0.62	0.4	0.49	<0.1	<0.1	<0.1	1	<0.1	<0.1	<0.1	0.36	0.29	<0.1	0.14	0.21	0.6	0.7	0.46	4	<0.1	<0.1
Fluoranthene	mg/kg	0.1	72200	105	<0.1	37	0		0.31	<0.1	<0.1	2.1	1.5	<0.1	2.4	<0.1	<0.1	<0.1	<0.1	1	<0.1	<0.1	<0.1	3	2.3	2.8	<0.1	<0.1	0.24	4.6	0.53	<0.1	0.45	0.84	0.97	0.26	<0.1	0.77	2.8	3.4	2.6	37	<0.1	4.6
Pyrene	mg/kg	0.1	54100	105	<0.1	32	0		0.21	<0.1	<0.1	2	1.5	<0.1	1.6	<0.1	<0.1	<0.1	<0.1	0.71	<0.1	<0.1	<0.1	2.7	1.7	2.4	<0.1	<0.1	0.18	3.9	0.46	<0.1	0.41	0.65	0.76	0.22	0.14	0.59	1.9	2.3	1.9	32	<0.1	2.8
Benzo[a]anthracene	mg/kg	0.1	BaP Surrogate	105	<0.1	17	0		0.15	<0.1	<0.1	2.6	0.69	<0.1	1.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.8	1.5	2.3	<0.1	<0.1	<0.1	2.7	<0.1	<0.1	<0.1	<0.1	0.35	<0.1	<0.1	0.19	1.4	1.7	1.7	17	<0.1	2.4
Chrysene	mg/kg	0.1	BaP Surrogate	105	<0.1	21	0		0.13	<0.1	<0.1	3	1	<0.1	1.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3.4	2.1	2.8	<0.1	<0.1	<0.1	3.8	<0.1	<0.1	<0.1	<0.1	0.33	<0.1	<0.1	0.25	1.8	1.8	2.5	21	<0.1	2.8
Benzo[b]fluoranthene	mg/kg	0.1	BaP Surrogate	105	<0.1	23	0		0.27	<0.1	<0.1	3	0.9	<0.1	1.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	4.5	2.6	4.1	<0.1	<0.1	<0.1	5.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.24	1.9	2	3.3	23	<0.1	3.9
Benzo[k]fluoranthene	mg/kg	0.1	BaP Surrogate	105	<0.1	8.4	0		<0.1	<0.1	<0.1	2.4	0.28	<0.1	0.58	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.5	0.81	1.6	<0.1	<0.1	<0.1	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.59	0.72	1.1	8.4	<0.1	1.2
Benzo[a]pyrene	mg/kg	0.1	76.3	105	<0.1	13	0		0.14	<0.1	<0.1	2.5	0.39	<0.1	0.82	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.4	1.5	2.1	<0.1	<0.1	<0.1	3.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.4	1.5	2.1	13	<0.1	1.9
Indeno(1,2,3-c,d)Pyrene	mg/kg	0.1	BaP Surrogate	105	<0.1	6.6	0		0.14	<0.1	<0.1	3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.2	1.3	2.2	<0.1	<0.1	<0.1	3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.9	0.98	1.8	6.6	<0.1	1.6
Dibenz(a,h)Anthracene	mg/kg	0.1	BaP Surrogate	105	<0.1	2.5	0		<0.1	<0.1	<0.1	2.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.74	0.33	0.66	<0.1	<0.1	<0.1	0.88	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.31	0.26	0.58	1.2	<0.1	<0.1
Benzo[g,h,i]perylene	mg/kg	0.1	BaP Surrogate	105	<0.1	4.7	0		0.14	<0.1	<0.1	2.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2	0.93	1.8	<0.1	<0.1	<0.1	2.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.6	0.65	1.1	4.7	<0.1	1.1
Total Of 16 PAH's	mg/kg	2	No SSV	105	<2	180	0		<2	<2	<2	32	10	<2	13	<2	<2	<2	<2	4.3	<2	<2	<2	32	20	29	<2	3.5	6	42	6.6	2.9	4.6	6.2	7.2	<2	2.8	6.7	19	21	25	180	<2	26
Total Phenols	mg/kg	0.1	No SSV	105	<0.1	0.43	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.26	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.43	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.24	<0.1

Assessment Criteria : *Commercial - 1% SOM Sand*

☐ **Use MRL Values?**

Constituent	Unit	Limit of Detection	Generic Assessment Criteria	Number of Samples	Minimum Value	Maximum Value	Number of Exceedances	Locations of Exceedances
ACM Type		N/A	No SSV	3	-	-	17	
Asbestos Identification		N/A	No SSV	91	-	-	3	S2-TP268, 1.9m; S2-TP2108, 0.5m; S2-TP2114, 0.2m
Asbestos by Gravimetry	%	0.001	No SSV	3	<0.001	0.001	1	S2-TP268, 1.9m; S2-TP2108, 0.5m; S2-TP2114, 0.2m
Total Asbestos	%	0.001	No SSV	3	<0.001	0.001	1	S2-TP268, 1.9m; S2-TP2108, 0.5m; S2-TP2114, 0.2m
Moisture	%	0.02	No SSV	105	0.98	75	0	
pH		4	No SSV	105	5.1	11.4	0	
Acid Neutralisation Capacity	mol/kg	0.002	No SSV	3	<0.012	<0.4	0	
Boron (Hot Water Soluble)	mg/kg	0.4	No SSV	105	<0.4	<10	0	
Sulphate (2:1 Water Soluble) as SO4 mg/l	mg/l	10	No SSV	103	<10	2100	0	
Cyanide (Free)	mg/kg	0.5	373	105	<0.5	<0.5	0	
Cyanide (Total)	mg/kg	0.5	No SSV	105	<0.5	0.5	0	
Arsenic	mg/kg	0.5	635	105	2.7	61	0	
Cadmium	mg/kg	0.1	410	105	<0.1	2.4	0	
Chromium	mg/kg	0.5	208000	105	1.2	300	0	
Copper	mg/kg	0.5	106000	105	7.8	540	0	
Mercury	mg/kg	0.05		105	<0.05	1.2	0	
Nickel	mg/kg	0.5	1770	105	5.2	81	0	
Lead	mg/kg	0.5	2310	105	10	1200	0	
Selenium	mg/kg	0.25	13000	105	0.42	9.3	0	
Vanadium	mg/kg	0.5	7490	105	3	190	0	
Zinc	mg/kg	0.5	1100000	105	16	1200	0	
Chromium (Hexavalent)	mg/kg	0.5	49.1	105	<0.5	<0.5	0	
Aliphatic VPH >C5-C6	mg/kg	0.05	4490	105	<0.05	0.58	0	
Aliphatic VPH >C6-C7	mg/kg	0.05	10400	105	<0.05	0.3	0	
Aliphatic VPH >C7-C8	mg/kg	0.05	No SSV	105	<0.05	0.23	0	
Aliphatic VPH >C8-C10	mg/kg	0.05	1370	105	<0.05	2	0	
Total Aliphatic VPH >C5-C10	mg/kg	0.25	No SSV	105	<0.25	11	0	
Aliphatic EPH >C10-C12	mg/kg	2	7900	105	<0.05	5.8	0	
Aliphatic EPH >C12-C16	mg/kg	1	34000	105	<1	30	0	
Aliphatic EPH >C16-C21	mg/kg	2	3620000	105	<2	63	0	
Aliphatic EPH >C21-C35	mg/kg	3	No SSV	105	<3	1200	0	
Aliphatic EPH >C35-C40	mg/kg	10	No SSV	105	<10	46	0	
Total Aliphatic EPH >C10-C35	mg/kg	5	No SSV	105	<5	1300	0	
Total Aliphatic EPH >C10-C40	mg/kg	10	No SSV	105	<10	1300	0	
Aromatic VPH >C5-C7	mg/kg	0.05	12.5	105	<0.05	0.36	0	
Aromatic VPH >C7-C8	mg/kg	0.05	27900	105	<0.05	0.29	0	
Aromatic VPH >C8-C10	mg/kg	0.05	2210	105	<0.05	0.28	0	
Total Aromatic VPH >C5-C10	mg/kg	0.25	No SSV	105	<0.25	0.94	0	
Aromatic EPH >C10-C12	mg/kg	1	12300	105	<1	27	0	
Aromatic EPH >C12-C16	mg/kg	1	41300	105	<1	98	0	
Aromatic EPH >C16-C21	mg/kg	2	No SSV	105	<2	430	0	
Aromatic EPH >C21-C35	mg/kg	2	28400	105	<2	650	0	
Aromatic EPH >C35-C40	mg/kg	1	No SSV	105	<1	110	0	
Total Aromatic EPH >C10-C35	mg/kg	5	No SSV	105	<5	1100	0	
Total Aromatic EPH >C10-C40	mg/kg	10	No SSV	105	<10	1200	0	
Total VPH >C5-C10	mg/kg	0.5	No SSV	105	<0.5	2.2	0	
Total EPH >C10-C35	mg/kg	10	No SSV	105	<10	1400	0	
Total EPH >C10-C40	mg/kg	10	No SSV	105	<10	1400	0	
Organic Matter	%	0.4	No SSV	105	<0.4	100	0	
Total Organic Carbon	%	0.2	No SSV	1	31	31	0	
Benzene	mg/kg	0.001	12.5	105	<0.001	0.0026	0	
Toluene	mg/kg	0.001	27900	105	<0.001	0.0046	0	
Ethylbenzene	mg/kg	0.001	7660	105	<0.001	<0.001	0	
m & p-Xylene	mg/kg	0.001	No SSV	105	<0.001	<0.001	0	
o-Xylene	mg/kg	0.001	3030	105	<0.001	0.0013	0	
Naphthalene	mg/kg	0.1	90.1	105	<0.1	21	0	
Acenaphthylene	mg/kg	0.1	No SSV	105	<0.1	1.3	0	
Acenaphthene	mg/kg	0.1	83600	105	<0.1	19	0	
Fluorene	mg/kg	0.1	66500	105	<0.1	15	0	
Phenanthrene	mg/kg	0.1	No SSV	105	<0.1	49	0	
Anthracene	mg/kg	0.1	535000	105	<0.1	7.7	0	
Fluoranthene	mg/kg	0.1	72200	105	<0.1	37	0	
Pyrene	mg/kg	0.1	54100	105	<0.1	32	0	
Benzo[a]anthracene	mg/kg	0.1	BaP Surrogate	105	<0.1	17	0	
Chrysene	mg/kg	0.1	BaP Surrogate	105	<0.1	21	0	
Benzo[b]fluoranthene	mg/kg	0.1	BaP Surrogate	105	<0.1	23	0	
Benzo[k]fluoranthene	mg/kg	0.1	BaP Surrogate	105	<0.1	8.4	0	
Benzo[a]pyrene	mg/kg	0.1	76.3	105	<0.1	13	0	
Indeno(1,2,3-c,d)Pyrene	mg/kg	0.1	BaP Surrogate	105	<0.1	6.6	0	
Dibenz(a,h)Anthracene	mg/kg	0.1	BaP Surrogate	105	<0.1	2.5	0	
Benzo[g,h,i]perylene	mg/kg	0.1	BaP Surrogate	105	<0.1	4.7	0	
Total Of 16 PAH's	mg/kg	2	No SSV	105	<2	180	0	
Total Phenols	mg/kg	0.1	No SSV	105	<0.1	0.43	0	

Constituent	S2-BH242	S2-BH261	S2-BH261	S2-BH250	S2-BH250	S2-TP279	S2-TP279	S2-BH247	S2-TP240	S2-TP240	S2-TP242	S2-TP242
	S2-BH242	S2-BH261	S2-BH261	S2-BH250	S2-BH250	S2-TP279	S2-TP279	S2-BH247	S2-TP240	S2-TP240	S2-TP242	S2-TP242
	3.1m	0.2m	0.9m	1.5m	3.5m	0.5m	1.9m	0.2m	0.5m	2.3m	0.2m	1.9m
	12-Apr-23	17-Apr-23	17-Apr-23	26-Apr-23	26-Apr-23	26-Apr-23	26-Apr-23	26-Apr-23	25-Apr-23	25-Apr-23	25-Apr-23	25-Apr-23
ACM Type	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos Identification	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry												
Total Asbestos												
Moisture	17	11	8.6	27	11	9.1	22	6.3	12	17	11	6.2
pH	6.5	7.8	7.7	7.4	8.2	10.4	8.9	10.7	5.9	5.7	5.8	7.4
Acid Neutralisation Capacity												
Boron (Hot Water Soluble)	0.47	<0.4	0.56	0.55	<0.4	5.5	0.42	1.5	<0.4	<0.4	<0.4	<0.4
Sulphate (2:1 Water Soluble) as SO4 mg/l	<10	15	91	<10	120	2100	54	670	<10	<10	<10	<10
Cyanide (Free)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide (Total)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic	4.4	14	13	31	9	2.7	14	11	26	5.9	19	7.1
Cadmium	<0.1	0.2	0.33	<0.1	0.25	<0.1	0.37	0.33	0.17	<0.1	0.31	0.12
Chromium	12	5.4	22	11	12	10	3.3	31	26	18	14	8.7
Copper	14	61	25	34	47	10	60	36	36	19	39	37
Mercury	<0.05	0.12	0.19	<0.05	0.07	<0.05	0.33	0.09	0.08	<0.05	0.15	0.05
Nickel	18	37	21	20	38	6.4	10	22	37	16	42	51
Lead	12	46	83	19	860	190	56	27	28	16	42	31
Selenium	0.42	1.4	0.68	1.4	1.3	1.4	0.98	0.97	1.2	0.66	1.5	0.62
Vanadium	11	7.8	34	35	19	16	4.7	19	28	20	22	14
Zinc	35	100	140	48	97	28	120	77	93	39	70	120
Chromium (Hexavalent)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aliphatic VPH >C5-C6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aliphatic VPH >C6-C7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aliphatic VPH >C7-C8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aliphatic VPH >C8-C10	<0.05	0.19	0.25	0.19	0.16	0.17	0.24	<0.05	<0.05	<0.05	<0.05	<0.05
Total Aliphatic VPH >C5-C10	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Aliphatic EPH >C10-C12	<2	<2	<2	2.7	<2	3.4	2.6	2.2	2.3	3.2	<2	<2
Aliphatic EPH >C12-C16	2.1	3.8	2.6	3.5	1.2	5.1	3.7	2.1	1.4	3.4	1.6	1.4
Aliphatic EPH >C16-C21	2	3	3.5	3.3	<2	5.2	9.5	2.2	<2	3.1	<2	<2
Aliphatic EPH >C21-C35	5.1	5.1	26	6.4	3.2	35	17	14	3.5	7.4	3.8	<3
Aliphatic EPH >C35-C40	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aliphatic EPH >C10-C35	11	13	34	16	7.1	49	32	20	8.3	17	8.3	6.7
Total Aliphatic EPH >C10-C40	11	13	34	16	<10	49	32	20	<10	17	<10	<10
Aromatic VPH >C5-C7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aromatic VPH >C7-C8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aromatic VPH >C8-C10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Aromatic VPH >C5-C10	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Aromatic EPH >C10-C12	6.6	14	10	8	7.1	9.7	2.9	3.1	7.5	8	7	8.1
Aromatic EPH >C12-C16	11	20	19	7.5	6.7	20	68	3.1	7.5	8.4	7.8	8.8
Aromatic EPH >C16-C21	13	18	19	11	8.6	26	430	7.1	10	12	10	10
Aromatic EPH >C21-C35	22	<2	<2	3.3	<2	22	650	3.6	5.6	12	<2	<2
Aromatic EPH >C35-C40	5.6	9.7	8.4	6	5.8	12	28	4.1	5.6	9	6.1	6
Total Aromatic EPH >C10-C35	52	53	49	29	22	77	1100	17	30	40	26	27
Total Aromatic EPH >C10-C40	57	63	57	35	28	89	1200	21	36	49	33	33
Total VPH >C5-C10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total EPH >C10-C35	62	67	83	45	30	130	1200	37	39	57	35	34
Total EPH >C10-C40	68	76	91	51	35	140	1200	41	44	66	41	40
Organic Matter	2.4	32	1.6	65	5.1	5.2	<0.4	17	3.4	1.3	32	6.5
Total Organic Carbon												
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Naphthalene	<0.1	<0.1	0.75	<0.1	<0.1	0.27	0.2	0.77	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	<0.1	<0.1	0.24	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	<0.1	<0.1	0.68	<0.1	<0.1	<0.1	0.18	0.54	<0.1	<0.1	<0.1	<0.1
Fluorene	<0.1	<0.1	0.85	<0.1	<0.1	<0.1	<0.1	0.6	<0.1	<0.1	<0.1	<0.1
Phenanthrene	<0.1	<0.1	4	<0.1	<0.1	0.31	0.6	1.7	<0.1	<0.1	<0.1	<0.1
Anthracene	<0.1	<0.1	1	<0.1	<0.1	<0.1	0.17	0.46	<0.1	<0.1	<0.1	<0.1
Fluoranthene	<0.1	<0.1	5.4	<0.1	<0.1	0.27	0.72	1.2	<0.1	<0.1	0.11	<0.1
Pyrene	<0.1	<0.1	4.4	<0.1	<0.1	0.22	0.68	0.71	<0.1	<0.1	0.1	<0.1
Benzo[a]anthracene	<0.1	<0.1	2	<0.1	<0.1	<0.1	0.32	0.3	<0.1	<0.1	<0.1	<0.1
Chrysene	<0.1	<0.1	2.2	<0.1	<0.1	<0.1	0.3	0.28	<0.1	<0.1	<0.1	<0.1
Benzo[b]fluoranthene	<0.1	<0.1	2.3	<0.1	<0.1	<0.1	0.43	0.27	<0.1	<0.1	<0.1	<0.1
Benzo[k]fluoranthene	<0.1	<0.1	0.64	<0.1	<0.1	<0.1	0.16	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[a]pyrene	<0.1	<0.1	1.8	<0.1	<0.1	<0.1	0.38	0.11	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)Pyrene	<0.1	<0.1	1.2	<0.1	<0.1	<0.1	0.31	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(a,h)Anthracene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[g,h,i]perylene	<0.1	<0.1	0.99	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Of 16 PAH's	<2	<2	29	<2	<2	<2	4.5	6.9	<2	<2	<2	<2
Total Phenols	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Constituent	S2-BH243	S2-BH240	S2-BH240	S2-BH239	S2-TP288	S2-TP288	S2-TP2108	S2-TP2108	S2-TP2114	S2-TP2114	S2-TP256	S2-TP256
	S2-BH243	S2-BH240	S2-BH240	S2-BH239	S2-TP288	S2-TP288	S2-TP2108	S2-TP2108	S2-TP2114	S2-TP2114	S2-TP256	S2-TP256
	3.5m	1.2m	4.2m	4.5m	0.2m	1.9m	0.5m	1.9m	0.2m	2.9m	0.2m	1.8m
	04-May-23	04-May-23	04-May-23	09-May-23	09-May-23	09-May-23	11-May-23	11-May-23	11-May-23	11-May-23	12-May-23	12-May-23
ACM Type	-	-	-	-	-	-	Fibres/Clumps	-	Fibres/Clumps	-	-	-
Asbestos Identification	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	Chrysotile	No Asbestos Detected	Chrysotile	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry							0.001		<0.001			
Total Asbestos							0.001		<0.001			
Moisture	6	7.1	4.1	12	11	25	14	21	1.5	10	14	51
pH	8.9	9.5	9.1	8.9	8.6	7.4	8.2	7.8	8.2	7.6	7.3	7.6
Acid Neutralisation Capacity											<0.4	<0.4
Boron (Hot Water Soluble)	0.53	0.48	0.65	2.2	<0.4	<0.4	0.91	0.72	<0.4	<0.4	<10	<10
Sulphate (2:1 Water Soluble) as SO4 mg/l	19	210	170	710	28	32	<10	<10	<10	490		
Cyanide (Free)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide (Total)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic	13	6.6	8.7	19	6.7	12	31	5.4	6.2	16	8.3	11
Cadmium	0.12	0.11	0.32	1.1	0.15	0.12	0.58	0.21	0.22	0.15	0.22	0.19
Chromium	6.1	8.5	8.4	30	3.9	16	7.2	7.1	9.5	2.2	3.4	4.3
Copper	27	24	31	540	33	15	56	57	23	64	33	37
Mercury	0.14	0.07	0.09	0.46	0.08	0.06	0.21	0.1	0.06	0.5	0.11	0.09
Nickel	19	25	33	47	15	16	31	19	11	16	20	17
Lead	14	10	21	390	27	24	34	21	22	32	26	37
Selenium	0.82	0.53	0.73	1.1	0.93	0.5	1.3	1	0.61	1.8	1.2	1.2
Vanadium	7.2	10	11	36	5.6	28	12	19	10	4	5.1	6.1
Zinc	56	63	150	550	56	46	120	65	63	60	69	62
Chromium (Hexavalent)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aliphatic VPH >C5-C6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aliphatic VPH >C6-C7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aliphatic VPH >C7-C8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aliphatic VPH >C8-C10	<0.25	<0.25	<0.25	<0.25	0.68	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Total Aliphatic VPH >C5-C10	3	2.4	2.8	<2	<2	<2	<2	<2	<2	<2	<2	<2
Aliphatic EPH >C10-C12	<0.05	<0.05	<0.05	0.2	0.68	0.15	<0.05	0.13	<0.05	0.2	0.25	0.21
Aliphatic EPH >C12-C16	1.3	1.6	1.1	1.2	1.1	1.1	<1	<1	<1	<1	<1	<1
Aliphatic EPH >C16-C21	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	4.5
Aliphatic EPH >C21-C35	<3	5.9	<3	<3	<3	<3	<3	3.5	18	49	17	33
Aliphatic EPH >C35-C40	<10	<10	<10	<10	<10	<10	10	12	16	21	<10	<10
Total Aliphatic EPH >C10-C35	6.1	11	<5	5.7	<5	<5	<5	<5	18	51	20	38
Total Aliphatic EPH >C10-C40	<10	11	<10	<10	<10	<10	10	12	34	72	20	38
Aromatic VPH >C5-C7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aromatic VPH >C7-C8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aromatic VPH >C8-C10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Aromatic VPH >C5-C10	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Aromatic EPH >C10-C12	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.2
Aromatic EPH >C12-C16	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Aromatic EPH >C16-C21	<2	<2	<2	<2	<2	<2	<2	<2	2.5	3.2	6.8	22
Aromatic EPH >C21-C35	<2	<2	<2	2.9	<2	3.1	<2	<2	57	53	19	280
Aromatic EPH >C35-C40	<1	<1	<1	<1	<1	<1	3.4	4	9.6	7.6	15	71
Total Aromatic EPH >C10-C35	<5	<5	<5	<5	<5	<5	<5	<5	60	57	25	300
Total Aromatic EPH >C10-C40	<10	<10	<10	<10	<10	<10	<10	<10	69	64	40	370
Total VPH >C5-C10	<0.5	<0.5	<0.5	<0.5	0.68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total EPH >C10-C35	<10	12	<10	<10	<10	<10	<10	<10	78	110	45	340
Total EPH >C10-C40	<10	12	<10	<10	<10	<10	14	16	100	140	60	410
Organic Matter	32	4.5	4.6	6.3	11	2.5	78	84	74	100	74	20
Total Organic Carbon												
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0046
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Naphthalene	3.2	5.5	3.4	0.53	1.7	<0.1	0.72	1.1	0.68	1.1	1.5	2.4
Acenaphthylene	0.32	0.58	0.2	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	0.11	0.11	<0.1	0.33	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.16
Fluorene	0.18	0.52	0.16	0.28	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.16
Phenanthrene	0.24	1.5	0.2	1.1	0.5	<0.1	<0.1	0.16	0.66	0.51	0.67	0.86
Anthracene	<0.1	0.25	<0.1	0.36	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.17
Fluoranthene	<0.1	0.9	<0.1	1.7	<0.1	<0.1	<0.1	<0.1	0.57	0.26	0.37	0.43
Pyrene	<0.1	0.62	<0.1	1.4	<0.1	<0.1	<0.1	<0.1	0.4	0.19	<0.1	0.3
Benzo[a]anthracene	<0.1	0.26	<0.1	0.82	<0.1	<0.1	<0.1	<0.1	0.27	<0.1	0.17	0.15
Chrysene	<0.1	0.16	<0.1	0.7	<0.1	<0.1	<0.1	<0.1	0.35	<0.1	0.24	0.32
Benzo[b]fluoranthene	<0.1	0.34	<0.1	1.2	<0.1	<0.1	<0.1	<0.1	0.44	<0.1	0.32	0.31
Benzo[k]fluoranthene	<0.1	0.11	<0.1	0.44	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[a]pyrene	<0.1	0.23	<0.1	0.83	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)Pyrene	<0.1	0.12	<0.1	0.59	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(a,h)Anthracene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[g,h,i]perylene	<0.1	0.13	<0.1	0.42	<0.1	<0.1	<0.1	<0.1	0.17	<0.1	0.2	<0.1
Total Of 16 PAH's	4.1	11	4	11	2.5	<2	<2	<2	3.5	2.1	3.5	5.3
Total Phenols	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.29

Constituent	S2-TP2107	S2-TP2107	S2-TP2113	S2-TP2113	S2-TP272	S2-TP272	S2-TP2104	S2-TP2104	S2-TP284	S2-TP284	S2-TP289b
	S2-TP2107	S2-TP2107	S2-TP2113	S2-TP2113	S2-TP272	S2-TP272	S2-TP2104	S2-TP2104	S2-TP284	S2-TP284	S2-TP289b
	0.2m	0.9m	0.2m	0.9m	0.2m	1.8m	0.2m	0.9m	0.2m	1.9m	0.5m
	15-May-23	15-May-23	15-May-23	15-May-23	15-May-23	15-May-23	10-May-23	10-May-23	10-May-23	10-May-23	10-May-23
ACM Type	-	-	-	-	-	-	-	-	-	-	-
Asbestos Identification	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry											
Total Asbestos											
Moisture	5.5	17	26	25	4.3	11	0.98	9.8	7.6	9.9	6.4
pH	9.9	9.1	7.5	7.8	8.7	7.4	8.5	8.3	11.2	11.1	8.9
Acid Neutralisation Capacity								0.012			
Boron (Hot Water Soluble)	0.77	0.93	1.3	0.88	3.2	0.69	<0.4	<0.4	0.77	1.1	<0.4
Sulphate (2:1 Water Soluble) as SO4 mg/l	310	190	47	<10	160	55	16	230	630	240	<10
Cyanide (Free)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide (Total)	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic	14	14	42	7.4	6.3	12	6.5	6.8	6.4	6.7	4.7
Cadmium	0.21	0.8	0.57	<0.1	<0.1	0.31	0.17	0.2	0.22	0.24	0.17
Chromium	21	32	4.8	14	11	6.5	5.7	10	300	17	7.4
Copper	60	91	32	10	8.5	36	30	31	28	20	14
Mercury	0.1	0.13	0.11	<0.05	<0.05	0.1	0.13	0.18	<0.05	<0.05	0.05
Nickel	29	37	15	9.5	7.8	17	19	16	81	22	7.8
Lead	29	140	82	16	13	32	15	20	12	39	18
Selenium	1.2	1.5	0.87	0.52	0.59	1.4	0.49	0.68	0.56	0.66	0.63
Vanadium	58	29	8.8	19	16	7.8	6.8	11	190	16	8.8
Zinc	94	1200	54	22	22	85	52	48	63	82	46
Chromium (Hexavalent)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aliphatic VPH >C5-C6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aliphatic VPH >C6-C7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aliphatic VPH >C7-C8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aliphatic VPH >C8-C10	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.05	<0.05	<0.05
Total Aliphatic VPH >C5-C10	4.2	4.1	11	8	5.9	9.5	<0.25	<0.25	<0.25	<0.25	<0.25
Aliphatic EPH >C10-C12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.6	4.3	3.2	3.5	3.3
Aliphatic EPH >C12-C16	4.9	14	4.9	7.4	4.2	8.6	2	5.8	1.7	6	4.3
Aliphatic EPH >C16-C21	4.1	22	2.6	<2	<2	3.5	2.7	10	2.9	19	7.6
Aliphatic EPH >C21-C35	34	71	15	9.1	6.9	11	37	16	30	110	40
Aliphatic EPH >C35-C40	14	46	17	13	11	14	18	<10	<10	14	<10
Total Aliphatic EPH >C10-C35	47	110	34	25	17	32	45	37	37	130	55
Total Aliphatic EPH >C10-C40	61	160	51	38	28	46	63	37	37	150	55
Aromatic VPH >C5-C7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aromatic VPH >C7-C8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aromatic VPH >C8-C10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Aromatic VPH >C5-C10	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Aromatic EPH >C10-C12	<1	<1	<1	<1	<1	<1	1.3	<1	<1	<1	<1
Aromatic EPH >C12-C16	<1	6.5	<1	<1	<1	<1	<1	<1	<1	<1	3.2
Aromatic EPH >C16-C21	3.5	72	2.4	3.3	<2	2.5	4	13	<2	13	17
Aromatic EPH >C21-C35	22	200	42	13	7.8	29	51	45	2.2	61	46
Aromatic EPH >C35-C40	6.1	50	16	8.6	5.2	9.3	11	32	<1	7	4.9
Total Aromatic EPH >C10-C35	25	280	44	16	9	32	57	59	<5	74	66
Total Aromatic EPH >C10-C40	31	330	61	25	14	41	68	91	<10	81	71
Total VPH >C5-C10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total EPH >C10-C35	73	390	79	41	26	64	100	95	40	210	120
Total EPH >C10-C40	93	480	110	63	42	87	130	130	40	230	130
Organic Matter	23	36	34	2.1	3.9	43	53	53	7.5	3.4	57
Total Organic Carbon								31			
Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Naphthalene	<0.1	1	0.67	<0.1	0.33	2.6	0.97	1.5	1.2	0.3	0.82
Acenaphthylene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	<0.1	<0.1	<0.1	<0.1	<0.1	0.31	<0.1	0.19	<0.1	<0.1	<0.1
Fluorene	<0.1	<0.1	<0.1	<0.1	<0.1	0.31	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	<0.1	0.59	0.4	<0.1	<0.1	1.5	<0.1	1.5	0.2	<0.1	0.9
Anthracene	<0.1	<0.1	<0.1	<0.1	<0.1	0.28	<0.1	0.21	<0.1	<0.1	0.14
Fluoranthene	<0.1	0.42	0.42	<0.1	<0.1	1.3	<0.1	1.4	<0.1	<0.1	0.9
Pyrene	<0.1	0.35	0.32	<0.1	<0.1	1	0.25	1.1	<0.1	<0.1	0.71
Benzo[a]anthracene	<0.1	0.22	<0.1	<0.1	<0.1	0.48	<0.1	0.58	<0.1	<0.1	0.56
Chrysene	<0.1	0.3	<0.1	<0.1	<0.1	0.54	<0.1	0.76	<0.1	<0.1	0.54
Benzo[b]fluoranthene	<0.1	0.43	<0.1	<0.1	<0.1	0.65	<0.1	0.75	<0.1	<0.1	0.81
Benzo[k]fluoranthene	<0.1	<0.1	<0.1	<0.1	<0.1	0.23	<0.1	<0.1	<0.1	<0.1	0.29
Benzo[a]pyrene	<0.1	<0.1	<0.1	<0.1	<0.1	0.4	<0.1	0.29	<0.1	<0.1	0.53
Indeno(1,2,3-c,d)Pyrene	<0.1	<0.1	<0.1	<0.1	<0.1	0.28	<0.1	0.16	<0.1	<0.1	0.48
Dibenz(a,h)Anthracene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.21
Benzo[g,h,i]perylene	<0.1	<0.1	<0.1	<0.1	<0.1	0.24	<0.1	0.25	<0.1	<0.1	0.41
Total Of 16 PAH's	<2	3.3	<2	<2	<2	10	<2	8.7	<2	<2	7.3
Total Phenols	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Appendix I.1

Table 1 Screening Summary

Determinand	Unit	Maximum LOD	Number of Samples	Number of Samples above LOD	GAC	LOD above GAC	Number of Exceedances	Minimum	Median	Mean	Maximum	Location of Maximum Value	Locations of Exceedances
Acenaphthene	mg/kg	0.1	76	27	83600	0	0	0.1	0.1	0.2125	1.5	S1-BH109 3.70 3.90 2022-12-07	
Acenaphthylene	mg/kg	0.1	76	7	83600	0	0	0.1	0.1	0.108947	0.28	BH33 0.20	
Anthracene	mg/kg	0.1	76	35	535000	0	0	0.1	0.1	0.265789	2.3	BH30 4.00	
Benzo[a]anthracene	mg/kg	0.1	76	29		0	0	0.1	0.1	0.535526	9.2	BH33 0.20	
Benzo[a]pyrene	mg/kg	0.1	76	21	76.3	0	0	0.1	0.1	0.508553	7.4	BH33 0.20	
Benzo[b]fluoranthene	mg/kg	0.1	76	31		0	0	0.1	0.1	0.778026	13	BH33 0.20	
Benzo[g,h,i]perylene	mg/kg	0.1	76	19		0	0	0.1	0.1	0.375132	4.7	BH33 0.20	
Benzo[k]fluoranthene	mg/kg	0.1	76	19		0	0	0.1	0.1	0.335263	4.7	S1-BH107 0.30 0.40 2022-12-01	
Chrysene	mg/kg	0.1	76	30		0	0	0.1	0.1	0.626842	11	BH33 0.20	
Dibenz(a,h)Anthracene	mg/kg	0.1	76	15		0	0	0.1	0.1	0.211184	4.2	S1-BH107 0.30 0.40 2022-12-01	
Fluoranthene	mg/kg	0.1	76	52	72200	0	0	0.1	0.275	1.022105	12	BH33 0.20	
Fluorene	mg/kg	0.1	76	33	66500	0	0	0.1	0.1	0.227763	1.7	S1-BH108 0.30 0.40 2022-11-17	
Indeno(1,2,3-c,d)Pyrene	mg/kg	0.1	76	18		0	0	0.1	0.1	0.393947	5.1	BH30 4.00	
Naphthalene	mg/kg	0.1	76	63	90.1	0	0	0.1	0.69	1.348947	17	S1-BH109 3.70 3.90 2022-12-07	
Phenanthrene	mg/kg	0.1	76	58	535000	0	0	0.1	0.515	1.058158	8.3	BH30 4.00	
Pyrene	mg/kg	0.1	76	51	54100	0	0	0.1	0.21	0.828158	9.4	BH33 0.20	
Total Of 16 PAH's	mg/kg	2	76	41		0	0	2	2.5	8.506579	88	BH33 0.20	
Total (Of 17) PAH's	mg/kg	2	23	12		0	0	2	2.1	9.656522	66	S1-BH108 0.30 0.40 2022-11-17	
Acid Neutralisation Capacit	mol/kg	0	23	13		0	0	0.002	0.004	0.00713	0.028	S1-BH106 0.20 0.30 2022-12-20	
Aliphatic TPH >C5-C6	mg/kg	1	75	0	4490	0	0	1	1	1	1	BH29 0.20	
Aliphatic TPH >C6-C8	mg/kg	1	75	0	10400	0	0	1	1	1	1	BH29 0.20	
Aliphatic TPH >C8-C10	mg/kg	1	75	1	1370	0	0	1	1	1.085333	7.4	BH30 0.20	
Aliphatic TPH >C10-C12	mg/kg	1	75	1	7900	0	0	1	1	1.16	13	BH30 0.20	
Aliphatic TPH >C12-C16	mg/kg	1	75	1	34000	0	0	1	1	1.048	4.6	BH30 0.20	
Aliphatic TPH >C16-C21	mg/kg	1	75	0	3620000	0	0	1	1	1	1	BH29 0.20	
Aliphatic TPH >C21-C35	mg/kg	1	75	5	3620000	0	0	1	1	58.10667	3700	TP02 1.00	
Aliphatic TPH >C35-C44	mg/kg	1	75	1		0	0	1	1	1.88	67	S1-BH103 2.20 2.40 2022-11-24	
Total Aliphatic Hydrocarbor	mg/kg	5	75	5		0	0	5	5	62.97333	3700	TP02 1.00	
Aromatic TPH >C5-C7	mg/kg	1	75	0	12.5	0	0	1	1	1	1	BH29 0.20	
Aromatic TPH >C7-C8	mg/kg	1	75	0	27900	0	0	1	1	1	1	BH29 0.20	
Aromatic TPH >C8-C10	mg/kg	1	75	1	2210	0	0	1	1	1.077333	6.8	S1-BH105 2.70 2.90 2022-12-01	
Aromatic TPH >C10-C12	mg/kg	1	75	1	12300	0	0	1	1	1.146667	12	S1-BH105 2.70 2.90 2022-12-01	
Aromatic TPH >C12-C16	mg/kg	1	75	1	41300	0	0	1	1	1.133333	11	S1-BH105 2.70 2.90 2022-12-01	
Aromatic TPH >C16-C21	mg/kg	1	75	1	28400	0	0	1	1	1.014667	2.1	S1-BH105 2.70 2.90 2022-12-01	
Aromatic TPH >C21-C35	mg/kg	1	75	7	28400	0	0	1	1	69.06667	2300	TP02 1.00	
Aromatic TPH >C35-C44	mg/kg	1	75	0		0	0	1	1	1	1	BH29 0.20	
Total Aromatic Hydrocarbo	mg/kg	5	75	7		0	0	5	5	73.10667	2300	TP02 1.00	
Total Petroleum Hydrocarb	mg/kg	10	75	7		0	0	10	10	135.32	6000	TP02 1.00	
Asbestos Identification	-	0	69	69		0	0						
Asbestos by Gravimetry	%	0	2	2		0	0						
Total Asbestos	%	0	2	2		0	0						
Benzene	mg/kg	0.001	75	7	12.5	0	0	0.001	0.001	0.002264	0.036	S1-BH102 3.00 3.20 2022-11-15	
Ethylbenzene	mg/kg	0.001	75	1	7660	0	0	0.001	0.001	0.001307	0.024	S1-BH102 3.00 3.20 2022-11-15	
Toluene	mg/kg	0.001	75	7	27900	0	0	0.001	0.001	0.003784	0.18	S1-BH102 3.00 3.20 2022-11-15	
m & p-Xylene	mg/kg	0.001	75	1	2720	0	0	0.001	0.001	0.00176	0.058	S1-BH102 3.00 3.20 2022-11-15	
o-Xylene	mg/kg	0.001	75	1	3030	0	0	0.001	0.001	0.001453	0.035	S1-BH102 3.00 3.20 2022-11-15	
Total BTEX	mg/kg	0.01	23	2		0	0	0.01	0.01	0.066217	1.3	S1-BH102 3.00 3.20 2022-11-15	

Appendix I.1

Table 1 Screening Summary

Determinand	Unit	Maximum LOD	Number of Samples	Number of Samples above LOD	GAC	LOD above GAC	Number of Exceedances	Minimum	Median	Mean	Maximum	Location of Maximum Value	Locations of Exceedances
Total Phenols	mg/kg	0.1	76	4		0	0	0.1	0.1	0.130395	1.4	S1-BH105 2.70 2.90 2022-12-01	
Arsenic	mg/kg	1	76	74	635	0	0	0.5	8.2	11.00921	99	S1-BH106 2.50 2.70 2022-12-21	
Boron (Hot Water Soluble)	mg/kg	0.4	76	32		0	0	0.4	0.4	0.611579	4.9	S1-BH116 0.90 1.00 2022-12-09	
Cadmium	mg/kg	0.1	76	52	410	0	0	0.1	0.135	0.425658	14	S1-BH106 2.50 2.70 2022-12-21	
Chromium	mg/kg	1	76	76	208000	0	0	0.7	5.6	12.75921	440	S1-BH106 2.50 2.70 2022-12-21	
Chromium (Hexavalent)	mg/kg	0.5	70	0	49.1	0	0	0.5	0.5	0.5	0.5	BH29 0.20	
Copper	mg/kg	0.5	76	76	106000	0	0	2.3	36.5	45.30921	260	TP01 1.00	
Lead	mg/kg	0.5	76	76	2310	0	1	0.96	24	75.91513	3300	S1-BH106 2.50 2.70 2022-12-21	S1-BH106
Mercury	mg/kg	0.1	76	55		0	0	0.05	0.1	0.135395	1.2	S1-BH106 2.50 2.70 2022-12-21	
Nickel	mg/kg	0.5	76	76	1770	0	0	2	20	20.67368	47	S1-BH110 0.30 0.40 2022-11-16	
Selenium	mg/kg	0.25	76	76	13000	0	0	0.27	1.3	1.493947	9	S1-BH103 1.00 1.10 2022-11-22	
Vanadium	mg/kg	0.5	67	67	7490	0	0	0.7	6.9	9.565672	44	S1-BH106 2.50 2.70 2022-12-21	
Zinc	mg/kg	0.5	76	76	1100000	0	0	1.6	55.5	288.8211	16000	S1-BH106 2.50 2.70 2022-12-21	
Cyanide (Free)	mg/kg	0.5	67	2	373	0	0	0.5	0.5	0.573134	5.4	S1-TP112 1.50 1.60 2022-11-15	
Cyanide (Total)	mg/kg	0.5	76	4		0	0	0.5	0.5	0.607895	5.4	S1-TP112 1.50 1.60 2022-11-15	
Dry Mass Of Test Portion	kg	0	23	23		0	0	0.175	0.175	0.175	0.175	S1-BH101 4.50 4.70 2022-12-13	
LOI	%	0.1	3	3		0	0	3.5	22	30.16667	65	TP02 1.00	
Loss On Ignition	%	0.1	23	23		0	0	2	14	14.76087	33	S1-BH109 3.70 3.90 2022-12-07	
Organic Matter	%	0.4	67	67		0	0	1.2	54	53.94478	100	S1-BH105 0.20 0.30 2022-11-30	
PCB 105	mg/kg	0.001	4	0		0	0	0.001	0.001	0.001	0.001	BH29 0.20	
PCB 114	mg/kg	0.001	4	0		0	0	0.001	0.001	0.001	0.001	BH29 0.20	
PCB 118	mg/kg	0.001	4	0		0	0	0.001	0.001	0.001	0.001	BH29 0.20	
PCB 123	mg/kg	0.001	4	0		0	0	0.001	0.001	0.001	0.001	BH29 0.20	
PCB 126	mg/kg	0.001	4	0		0	0	0.001	0.001	0.001	0.001	BH29 0.20	
PCB 156	mg/kg	0.001	4	0		0	0	0.001	0.001	0.001	0.001	BH29 0.20	
PCB 157	mg/kg	0.001	4	0		0	0	0.001	0.001	0.001	0.001	BH29 0.20	
PCB 167	mg/kg	0.001	4	0		0	0	0.001	0.001	0.001	0.001	BH29 0.20	
PCB 169	mg/kg	0.001	4	0		0	0	0.001	0.001	0.001	0.001	BH29 0.20	
PCB 189	mg/kg	0.001	4	0		0	0	0.001	0.001	0.001	0.001	BH29 0.20	
PCB 77	mg/kg	0.001	4	0		0	0	0.001	0.001	0.001	0.001	BH29 0.20	
PCB 81	mg/kg	0.001	4	0		0	0	0.001	0.001	0.001	0.001	BH29 0.20	
TPH >C10-C25	mg/kg	1	1	0		0	0	1	1	1	1	BH30 4.00	
TPH >C25-C40	mg/kg	1	1	0		0	0	1	1	1	1	BH30 4.00	
TPH >C6-C10	mg/kg	1	1	0		0	0	1	1	1	1	BH30 4.00	
TPH Total WAC	mg/kg	10	23	9		0	0	10	10	186.2174	3500	S1-TP115 0.20 0.30 2022-11-08	
Total PCBs (12 Congeners)	mg/kg	0.001	4	0		0	0	0.001	0.001	0.001	0.001	BH29 0.20	
Total PCBs (7 Congeners)	mg/kg	0.1	23	0		0	0	0.1	0.1	0.1	0.1	S1-BH101 4.50 4.70 2022-12-13	
Total Organic Carbon	%	0.2	32	32		0	0	1.1	30.5	31.79063	82	BH30 0.20	
Total TPH >C6-C40	mg/kg	10	1	0		0	0	10	10	10	10	BH30 4.00	
pH	-	4	99	99		0	0	4.3	7.9	7.535354	9.7	S1-BH107 0.30 0.40 2022-12-01	

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
BH29	230.74	0.2	pH	8.9	-	4	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	LOI	3.5	%	0.1	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	Total Organic Carbon	16	%	0.2	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	Ethylbenzene	< 0.001	mg/kg	0.001	284719.5	210705.4	7660	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Toluene	< 0.001	mg/kg	0.001	284719.5	210705.4	27900	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Anthracene	0.21	mg/kg	0.1	284719.5	210705.4	535000	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Pyrene	0.83	mg/kg	0.1	284719.5	210705.4	54100	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Total PCBs (12 Congeners)	< 0.001	mg/kg	0.001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284719.5	210705.4	49.1	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.2	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	Benzo[b]fluoranthene	0.61	mg/kg	0.1	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	Fluoranthene	1	mg/kg	0.1	284719.5	210705.4	72200	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Benzo[k]fluoranthene	0.18	mg/kg	0.1	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	Acenaphthylene	< 0.1	mg/kg	0.1	284719.5	210705.4	83600	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Chrysene	0.56	mg/kg	0.1	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	PCB 118	< 0.001	mg/kg	0.001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	PCB 77	< 0.001	mg/kg	0.001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	PCB 105	< 0.001	mg/kg	0.001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	PCB 169	< 0.001	mg/kg	0.001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	PCB 156	< 0.001	mg/kg	0.001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	PCB 189	< 0.001	mg/kg	0.001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	Benzo[a]pyrene	0.3	mg/kg	0.1	284719.5	210705.4	76.3	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	PCB 167	< 0.001	mg/kg	0.001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	Benzo[a]anthracene	0.37	mg/kg	0.1	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	Cyanide (Total)	< 0.5	mg/kg	0.5	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	PCB 126	< 0.001	mg/kg	0.001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	PCB 123	< 0.001	mg/kg	0.001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	PCB 157	< 0.001	mg/kg	0.001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	PCB 81	< 0.001	mg/kg	0.001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	Benzene	< 0.001	mg/kg	0.001	284719.5	210705.4	12.5	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Lead	19	mg/kg	0.5	284719.5	210705.4	2310	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.2	Mercury	< 0.1	mg/kg	0.1	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	Nickel	24	mg/kg	0.5	284719.5	210705.4	1770	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.2	Arsenic	6.4	mg/kg	1	284719.5	210705.4	635	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.2	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	Cadmium	0.16	mg/kg	0.1	284719.5	210705.4	410	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Chromium	9.6	mg/kg	1	284719.5	210705.4	208000	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Copper	35	mg/kg	0.5	284719.5	210705.4	106000	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Zinc	63	mg/kg	0.5	284719.5	210705.4	1100000	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	PCB 114	< 0.001	mg/kg	0.001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	Selenium	0.49	mg/kg	0.2	284719.5	210705.4	13000	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Acenaphthene	< 0.1	mg/kg	0.1	284719.5	210705.4	83600	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Phenanthrene	0.97	mg/kg	0.1	284719.5	210705.4	535000	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Fluorene	< 0.1	mg/kg	0.1	284719.5	210705.4	66500	NO	NO	0	POINT (284719.48 210705.39)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
BH29	230.74	0.2	Naphthalene	< 0.1	mg/kg	0.1	284719.5	210705.4	90.1	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	o-Xylene	< 0.001	mg/kg	0.001	284719.5	210705.4	3030	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Total Phenols	< 0.1	mg/kg	0.1	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	Total Of 16 PAH's	5	mg/kg	2	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284719.5	210705.4	27900	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284719.5	210705.4	2210	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284719.5	210705.4	12300	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284719.5	210705.4	41300	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284719.5	210705.4	28400	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284719.5	210705.4	28400	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	m & p-Xylene	< 0.001	mg/kg	0.001	284719.5	210705.4	2720	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284719.5	210705.4	4490	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284719.5	210705.4	10400	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284719.5	210705.4	1370	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284719.5	210705.4	7900	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284719.5	210705.4	34000	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284719.5	210705.4	3620000	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284719.5	210705.4	3620000	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.2	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284719.5	210705.4	12.5	NO	NO	0.08	POINT (284719.48 210705.39)
BH29	230.74	0.2	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.2	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	2	pH	7.3	-	4	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	2	Total Organic Carbon	46	%	0.2	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	2	Ethylbenzene	< 0.001	mg/kg	0.001	284719.5	210705.4	7660	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Toluene	0.001	mg/kg	0.001	284719.5	210705.4	27900	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Anthracene	< 0.1	mg/kg	0.1	284719.5	210705.4	535000	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Pyrene	0.22	mg/kg	0.1	284719.5	210705.4	54100	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	2	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	2	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	2	Fluoranthene	0.21	mg/kg	0.1	284719.5	210705.4	72200	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	2	Acenaphthylene	< 0.1	mg/kg	0.1	284719.5	210705.4	83600	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Chrysene	< 0.1	mg/kg	0.1	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	2	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284719.5	210705.4	76.3	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	2	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	2	Cyanide (Total)	< 0.5	mg/kg	0.5	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	2	Benzene	0.0013	mg/kg	0.001	284719.5	210705.4	12.5	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Lead	10	mg/kg	0.5	284719.5	210705.4	2310	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Mercury	0.14	mg/kg	0.1	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	2	Nickel	5.8	mg/kg	0.5	284719.5	210705.4	1770	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Arsenic	1.5	mg/kg	1	284719.5	210705.4	635	NO	NO	0	POINT (284719.48 210705.39)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
BH29	230.74	2	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	2	Cadmium	< 0.1	mg/kg	0.1	284719.5	210705.4	410	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Chromium	3.7	mg/kg	1	284719.5	210705.4	208000	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Copper	27	mg/kg	0.5	284719.5	210705.4	106000	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Zinc	19	mg/kg	0.5	284719.5	210705.4	1100000	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Selenium	0.44	mg/kg	0.2	284719.5	210705.4	13000	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Acenaphthene	< 0.1	mg/kg	0.1	284719.5	210705.4	83600	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Phenanthrene	< 0.1	mg/kg	0.1	284719.5	210705.4	535000	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Fluorene	< 0.1	mg/kg	0.1	284719.5	210705.4	66500	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Naphthalene	< 0.1	mg/kg	0.1	284719.5	210705.4	90.1	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	o-Xylene	< 0.001	mg/kg	0.001	284719.5	210705.4	3030	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Total Phenols	< 0.1	mg/kg	0.1	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	2	Total Of 16 PAH's	< 2.0	mg/kg	2	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	2	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284719.5	210705.4	27900	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284719.5	210705.4	2210	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284719.5	210705.4	12300	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284719.5	210705.4	41300	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284719.5	210705.4	28400	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284719.5	210705.4	28400	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	2	m & p-Xylene	< 0.001	mg/kg	0.001	284719.5	210705.4	2720	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284719.5	210705.4	4490	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284719.5	210705.4	10400	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284719.5	210705.4	1370	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284719.5	210705.4	7900	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284719.5	210705.4	34000	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284719.5	210705.4	3620000	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284719.5	210705.4	3620000	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	2	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	2	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284719.5	210705.4	12.5	NO	NO	0.08	POINT (284719.48 210705.39)
BH29	230.74	2	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	2	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	2	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH30	239.1	0.2	pH	8.7	-	4	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Total Organic Carbon	82	%	0.2	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Ethylbenzene	< 0.001	mg/kg	0.001	284925.7	210549.4	7660	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Toluene	< 0.001	mg/kg	0.001	284925.7	210549.4	27900	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Anthracene	< 0.1	mg/kg	0.1	284925.7	210549.4	535000	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Pyrene	< 0.1	mg/kg	0.1	284925.7	210549.4	54100	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Total PCBs (12 Congeners)	< 0.001	mg/kg	0.001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Fluoranthene	< 0.1	mg/kg	0.1	284925.7	210549.4	72200	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Acenaphthylene	< 0.1	mg/kg	0.1	284925.7	210549.4	83600	NO	NO	0	POINT (284925.69 210549.41)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
BH30	239.1	0.2	Chrysene	< 0.1	mg/kg	0.1	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	PCB 118	< 0.001	mg/kg	0.001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	PCB 77	< 0.001	mg/kg	0.001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	PCB 105	< 0.001	mg/kg	0.001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	PCB 169	< 0.001	mg/kg	0.001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	PCB 156	< 0.001	mg/kg	0.001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	PCB 189	< 0.001	mg/kg	0.001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284925.7	210549.4	76.3	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	PCB 167	< 0.001	mg/kg	0.001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Cyanide (Total)	< 0.5	mg/kg	0.5	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	PCB 126	< 0.001	mg/kg	0.001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	PCB 123	< 0.001	mg/kg	0.001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	PCB 157	< 0.001	mg/kg	0.001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	PCB 81	< 0.001	mg/kg	0.001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Benzene	< 0.001	mg/kg	0.001	284925.7	210549.4	12.5	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Lead	8	mg/kg	0.5	284925.7	210549.4	2310	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Mercury	< 0.1	mg/kg	0.1	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Nickel	6.4	mg/kg	0.5	284925.7	210549.4	1770	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Arsenic	2.6	mg/kg	1	284925.7	210549.4	635	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Cadmium	< 0.1	mg/kg	0.1	284925.7	210549.4	410	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Chromium	1.3	mg/kg	1	284925.7	210549.4	208000	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Copper	17	mg/kg	0.5	284925.7	210549.4	106000	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Zinc	52	mg/kg	0.5	284925.7	210549.4	1100000	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	PCB 114	< 0.001	mg/kg	0.001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Selenium	0.27	mg/kg	0.2	284925.7	210549.4	13000	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Acenaphthene	< 0.1	mg/kg	0.1	284925.7	210549.4	83600	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Phenanthrene	< 0.1	mg/kg	0.1	284925.7	210549.4	535000	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Fluorene	< 0.1	mg/kg	0.1	284925.7	210549.4	66500	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Naphthalene	< 0.1	mg/kg	0.1	284925.7	210549.4	90.1	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	o-Xylene	< 0.001	mg/kg	0.001	284925.7	210549.4	3030	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Total Phenols	< 0.1	mg/kg	0.1	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Total Of 16 PAH's	< 2.0	mg/kg	2	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284925.7	210549.4	27900	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284925.7	210549.4	2210	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284925.7	210549.4	12300	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284925.7	210549.4	41300	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284925.7	210549.4	28400	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Aromatic TPH >C21-C35	220	mg/kg	1	284925.7	210549.4	28400	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	0.2	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	m & p-Xylene	< 0.001	mg/kg	0.001	284925.7	210549.4	2720	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284925.7	210549.4	4490	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284925.7	210549.4	10400	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Aliphatic TPH >C8-C10	7.4	mg/kg	1	284925.7	210549.4	1370	NO	NO	0.01	POINT (284925.69 210549.41)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
BH30	239.1	0.2	Aliphatic TPH >C10-C12	13	mg/kg	1	284925.7	210549.4	7900	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Aliphatic TPH >C12-C16	4.6	mg/kg	1	284925.7	210549.4	34000	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284925.7	210549.4	3620000	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Aliphatic TPH >C21-C35	22	mg/kg	1	284925.7	210549.4	3620000	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284925.7	210549.4	12.5	NO	NO	0.08	POINT (284925.69 210549.41)
BH30	239.1	0.2	Total Petroleum Hydrocarbor	270	mg/kg	10	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Total Aliphatic Hydrocarbons	47	mg/kg	5	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Total Aromatic Hydrocarbons	220	mg/kg	5	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	4	pH	6.9	-	4	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	4	Total Organic Carbon	11	%	0.2	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	4	Anthracene	2.3	mg/kg	0.1	284925.7	210549.4	535000	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	4	Pyrene	9	mg/kg	0.1	284925.7	210549.4	54100	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	4	Benzo[g,h,i]perylene	3.7	mg/kg	0.1	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	4	Indeno(1,2,3-c,d)Pyrene	5.1	mg/kg	0.1	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	4	Benzo[b]fluoranthene	7.5	mg/kg	0.1	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	4	Fluoranthene	11	mg/kg	0.1	284925.7	210549.4	72200	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	4	Benzo[k]fluoranthene	2.8	mg/kg	0.1	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	4	Acenaphthylene	0.23	mg/kg	0.1	284925.7	210549.4	83600	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	4	Chrysene	4.3	mg/kg	0.1	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	4	Benzo[a]pyrene	6.6	mg/kg	0.1	284925.7	210549.4	76.3	NO	NO	0.09	POINT (284925.69 210549.41)
BH30	239.1	4	Dibenz(a,h)Anthracene	0.79	mg/kg	0.1	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	4	Benzo[a]anthracene	4.8	mg/kg	0.1	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	4	Cyanide (Total)	< 0.5	mg/kg	0.5	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	4	Lead	16	mg/kg	0.5	284925.7	210549.4	2310	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	4	Mercury	< 0.1	mg/kg	0.1	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	4	Nickel	5.2	mg/kg	0.5	284925.7	210549.4	1770	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	4	Arsenic	27	mg/kg	1	284925.7	210549.4	635	NO	NO	0.04	POINT (284925.69 210549.41)
BH30	239.1	4	Boron (Hot Water Soluble)	0.55	mg/kg	0.4	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	4	Cadmium	0.32	mg/kg	0.1	284925.7	210549.4	410	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	4	Chromium	11	mg/kg	1	284925.7	210549.4	208000	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	4	Copper	7.8	mg/kg	0.5	284925.7	210549.4	106000	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	4	Zinc	21	mg/kg	0.5	284925.7	210549.4	1100000	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	4	Selenium	0.87	mg/kg	0.2	284925.7	210549.4	13000	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	4	Acenaphthene	1.2	mg/kg	0.1	284925.7	210549.4	83600	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	4	Phenanthrene	8.3	mg/kg	0.1	284925.7	210549.4	535000	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	4	Fluorene	1.3	mg/kg	0.1	284925.7	210549.4	66500	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	4	Naphthalene	0.72	mg/kg	0.1	284925.7	210549.4	90.1	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	4	TPH >C10-C25	< 1.0	mg/kg	1	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	4	TPH >C25-C40	< 1.0	mg/kg	1	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	4	TPH >C6-C10	< 1.0	mg/kg	1	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	4	Total Phenols	< 0.1	mg/kg	0.1	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	4	Total Of 16 PAH's	70	mg/kg	2	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	4	Total TPH >C6-C40	< 10.0	mg/kg	10	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH33	230.51	0.2	pH	7.9	-	4	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Total Organic Carbon	5.7	%	0.2	284397	210700.9		NO	NO		POINT (284397.04 210700.88)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
BH33	230.51	0.2	Ethylbenzene	< 0.001	mg/kg	0.001	284397	210700.9	7660	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Toluene	< 0.001	mg/kg	0.001	284397	210700.9	27900	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Anthracene	1.8	mg/kg	0.1	284397	210700.9	535000	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Pyrene	9.4	mg/kg	0.1	284397	210700.9	54100	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Total PCBs (12 Congeners)	< 0.001	mg/kg	0.001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Benzo[g,h,i]perylene	4.7	mg/kg	0.1	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Indeno(1,2,3-c,d)Pyrene	4.9	mg/kg	0.1	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Benzo[b]fluoranthene	13	mg/kg	0.1	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Fluoranthene	12	mg/kg	0.1	284397	210700.9	72200	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Benzo[k]fluoranthene	4.3	mg/kg	0.1	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Acenaphthylene	0.28	mg/kg	0.1	284397	210700.9	83600	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Chrysene	11	mg/kg	0.1	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	PCB 118	< 0.001	mg/kg	0.001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	PCB 77	< 0.001	mg/kg	0.001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	PCB 105	< 0.001	mg/kg	0.001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	PCB 169	< 0.001	mg/kg	0.001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	PCB 156	< 0.001	mg/kg	0.001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	PCB 189	< 0.001	mg/kg	0.001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Benzo[a]pyrene	7.4	mg/kg	0.1	284397	210700.9	76.3	NO	NO	0.1	POINT (284397.04 210700.88)
BH33	230.51	0.2	PCB 167	< 0.001	mg/kg	0.001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Dibenz(a,h)Anthracene	2.1	mg/kg	0.1	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Benzo[a]anthracene	9.2	mg/kg	0.1	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Cyanide (Total)	2.9	mg/kg	0.5	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	PCB 126	< 0.001	mg/kg	0.001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	PCB 123	< 0.001	mg/kg	0.001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	PCB 157	< 0.001	mg/kg	0.001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	PCB 81	< 0.001	mg/kg	0.001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Benzene	< 0.001	mg/kg	0.001	284397	210700.9	12.5	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Lead	23	mg/kg	0.5	284397	210700.9	2310	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.2	Mercury	0.15	mg/kg	0.1	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Nickel	42	mg/kg	0.5	284397	210700.9	1770	NO	NO	0.02	POINT (284397.04 210700.88)
BH33	230.51	0.2	Arsenic	7.8	mg/kg	1	284397	210700.9	635	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.2	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Cadmium	0.16	mg/kg	0.1	284397	210700.9	410	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Chromium	16	mg/kg	1	284397	210700.9	208000	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Copper	39	mg/kg	0.5	284397	210700.9	106000	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Zinc	250	mg/kg	0.5	284397	210700.9	1100000	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	PCB 114	< 0.001	mg/kg	0.001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Selenium	0.86	mg/kg	0.2	284397	210700.9	13000	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Acenaphthene	0.74	mg/kg	0.1	284397	210700.9	83600	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Phenanthrene	4.3	mg/kg	0.1	284397	210700.9	535000	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Fluorene	0.95	mg/kg	0.1	284397	210700.9	66500	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Naphthalene	2	mg/kg	0.1	284397	210700.9	90.1	NO	NO	0.02	POINT (284397.04 210700.88)
BH33	230.51	0.2	o-Xylene	< 0.001	mg/kg	0.001	284397	210700.9	3030	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Total Phenols	< 0.1	mg/kg	0.1	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Total Of 16 PAH's	88	mg/kg	2	284397	210700.9		NO	NO		POINT (284397.04 210700.88)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
BH33	230.51	0.2	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284397	210700.9	27900	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284397	210700.9	2210	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284397	210700.9	12300	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284397	210700.9	41300	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284397	210700.9	28400	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284397	210700.9	28400	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	m & p-Xylene	< 0.001	mg/kg	0.001	284397	210700.9	2720	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284397	210700.9	4490	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284397	210700.9	10400	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284397	210700.9	1370	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284397	210700.9	7900	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284397	210700.9	34000	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284397	210700.9	3620000	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284397	210700.9	3620000	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284397	210700.9	12.5	NO	NO	0.08	POINT (284397.04 210700.88)
BH33	230.51	0.2	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
S1-BH101	241.16	2.7	pH	7.8	-	4	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Organic Matter	55	%	0.4	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Anthracene	< 0.1	mg/kg	0.1	284925.4	210692	535000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Pyrene	0.17	mg/kg	0.1	284925.4	210692	54100	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284925.4	210692	49.1	NO	NO	0.01	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Fluoranthene	0.21	mg/kg	0.1	284925.4	210692	72200	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Acenaphthylene	< 0.1	mg/kg	0.1	284925.4	210692	83600	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Chrysene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284925.4	210692	76.3	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Cyanide (Total)	< 0.5	mg/kg	0.5	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Lead	150	mg/kg	0.5	284925.4	210692	2310	NO	NO	0.06	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Mercury	0.11	mg/kg	0.05	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Nickel	34	mg/kg	0.5	284925.4	210692	1770	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Arsenic	21	mg/kg	0.5	284925.4	210692	635	NO	NO	0.03	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Boron (Hot Water Soluble)	0.47	mg/kg	0.4	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Cadmium	0.78	mg/kg	0.1	284925.4	210692	410	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Chromium	7.2	mg/kg	0.5	284925.4	210692	208000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Copper	120	mg/kg	0.5	284925.4	210692	106000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Vanadium	9.5	mg/kg	0.5	284925.4	210692	7490	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Zinc	350	mg/kg	0.5	284925.4	210692	1100000	NO	NO	0	POINT (284925.38 210692.01)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH101	241.16	2.7	Selenium	2.8	mg/kg	0.25	284925.4	210692	13000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Acenaphthene	< 0.1	mg/kg	0.1	284925.4	210692	83600	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Phenanthrene	0.52	mg/kg	0.1	284925.4	210692	535000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Fluorene	< 0.1	mg/kg	0.1	284925.4	210692	66500	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Naphthalene	0.93	mg/kg	0.1	284925.4	210692	90.1	NO	NO	0.01	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Cyanide (Free)	< 0.5	mg/kg	0.5	284925.4	210692	373	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Total Phenols	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Total Of 16 PAH's	< 2.0	mg/kg	2	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284925.4	210692	27900	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284925.4	210692	2210	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284925.4	210692	12300	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284925.4	210692	41300	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284925.4	210692	28400	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284925.4	210692	28400	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284925.4	210692	4490	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284925.4	210692	10400	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284925.4	210692	1370	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284925.4	210692	7900	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284925.4	210692	34000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284925.4	210692	3620000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284925.4	210692	3620000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284925.4	210692	12.5	NO	NO	0.08	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Ethylbenzene	< 0.001	mg/kg	0.001	284925.4	210692	7660	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Toluene	< 0.001	mg/kg	0.001	284925.4	210692	27900	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	Benzene	< 0.001	mg/kg	0.001	284925.4	210692	12.5	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	o-Xylene	< 0.001	mg/kg	0.001	284925.4	210692	3030	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	2.7	m & p-Xylene	< 0.001	mg/kg	0.001	284925.4	210692	2720	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	pH	7.9	-	4	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	pH	8.4	-	4	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Loss On Ignition	14	%	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Organic Matter	11	%	0.4	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Total Organic Carbon	10	%	0.2	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Dry Mass Of Test Portion	0.175	kg	0	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Anthracene	< 0.1	mg/kg	0.1	284925.4	210692	535000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Pyrene	< 0.1	mg/kg	0.1	284925.4	210692	54100	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Total PCBs (7 Congeners)	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284925.4	210692	49.1	NO	NO	0.01	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Fluoranthene	< 0.1	mg/kg	0.1	284925.4	210692	72200	NO	NO	0	POINT (284925.38 210692.01)

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Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH101	241.16	4.5	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Acenaphthylene	< 0.1	mg/kg	0.1	284925.4	210692	83600	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Chrysene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284925.4	210692	76.3	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Cyanide (Total)	< 0.5	mg/kg	0.5	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Lead	27	mg/kg	0.5	284925.4	210692	2310	NO	NO	0.01	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Mercury	0.1	mg/kg	0.05	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Nickel	29	mg/kg	0.5	284925.4	210692	1770	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Arsenic	7.1	mg/kg	0.5	284925.4	210692	635	NO	NO	0.01	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Boron (Hot Water Soluble)	0.5	mg/kg	0.4	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Cadmium	0.18	mg/kg	0.1	284925.4	210692	410	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Chromium	4.9	mg/kg	0.5	284925.4	210692	208000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Copper	52	mg/kg	0.5	284925.4	210692	106000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Vanadium	6	mg/kg	0.5	284925.4	210692	7490	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Zinc	83	mg/kg	0.5	284925.4	210692	1100000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Selenium	1.5	mg/kg	0.25	284925.4	210692	13000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Acenaphthene	< 0.1	mg/kg	0.1	284925.4	210692	83600	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Phenanthrene	< 0.1	mg/kg	0.1	284925.4	210692	535000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Fluorene	< 0.1	mg/kg	0.1	284925.4	210692	66500	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Naphthalene	0.25	mg/kg	0.1	284925.4	210692	90.1	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Cyanide (Free)	< 0.5	mg/kg	0.5	284925.4	210692	373	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Total Phenols	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Total Of 16 PAH's	< 2.0	mg/kg	2	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Total (Of 17) PAH's	< 2.0	mg/kg	2	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Total BTEX	< 0.01	mg/kg	0.01	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284925.4	210692	27900	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284925.4	210692	2210	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284925.4	210692	12300	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284925.4	210692	41300	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284925.4	210692	28400	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284925.4	210692	28400	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	TPH Total WAC	< 10.0	mg/kg	10	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284925.4	210692	4490	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284925.4	210692	10400	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284925.4	210692	1370	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284925.4	210692	7900	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284925.4	210692	34000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284925.4	210692	3620000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284925.4	210692	3620000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284925.4	210692	12.5	NO	NO	0.08	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284925.4	210692		NO	NO		POINT (284925.38 210692.01)

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Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH101	241.16	4.5	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Acid Neutralisation Capacity	< 0.002	mol/kg	0	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Ethylbenzene	< 0.001	mg/kg	0.001	284925.4	210692	7660	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Toluene	< 0.001	mg/kg	0.001	284925.4	210692	27900	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Benzene	< 0.001	mg/kg	0.001	284925.4	210692	12.5	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	o-Xylene	< 0.001	mg/kg	0.001	284925.4	210692	3030	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	m & p-Xylene	< 0.001	mg/kg	0.001	284925.4	210692	2720	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	pH	7.4	-	4	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Organic Matter	85	%	0.4	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Anthracene	0.13	mg/kg	0.1	284925.4	210692	535000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Pyrene	0.37	mg/kg	0.1	284925.4	210692	54100	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284925.4	210692	49.1	NO	NO	0.01	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Benzo[b]fluoranthene	0.36	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Fluoranthene	0.51	mg/kg	0.1	284925.4	210692	72200	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Acenaphthylene	< 0.1	mg/kg	0.1	284925.4	210692	83600	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Chrysene	0.21	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284925.4	210692	76.3	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Benzo[a]anthracene	0.2	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Cyanide (Total)	< 0.5	mg/kg	0.5	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Lead	39	mg/kg	0.5	284925.4	210692	2310	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Mercury	0.15	mg/kg	0.05	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Nickel	25	mg/kg	0.5	284925.4	210692	1770	NO	NO	0.01	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Arsenic	12	mg/kg	0.5	284925.4	210692	635	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Boron (Hot Water Soluble)	0.42	mg/kg	0.4	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Cadmium	0.24	mg/kg	0.1	284925.4	210692	410	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Chromium	3.6	mg/kg	0.5	284925.4	210692	208000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Copper	61	mg/kg	0.5	284925.4	210692	106000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Vanadium	5	mg/kg	0.5	284925.4	210692	7490	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Zinc	63	mg/kg	0.5	284925.4	210692	1100000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Selenium	2.3	mg/kg	0.25	284925.4	210692	13000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Acenaphthene	0.18	mg/kg	0.1	284925.4	210692	83600	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Phenanthrene	0.7	mg/kg	0.1	284925.4	210692	535000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Fluorene	0.16	mg/kg	0.1	284925.4	210692	66500	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Naphthalene	0.93	mg/kg	0.1	284925.4	210692	90.1	NO	NO	0.01	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Cyanide (Free)	< 0.5	mg/kg	0.5	284925.4	210692	373	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Total Phenols	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Total Of 16 PAH's	3.8	mg/kg	2	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284925.4	210692	27900	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284925.4	210692	2210	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284925.4	210692	12300	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284925.4	210692	41300	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284925.4	210692	28400	NO	NO	0	POINT (284925.38 210692.01)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH101	241.16	7.5	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284925.4	210692	28400	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284925.4	210692	4490	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284925.4	210692	10400	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284925.4	210692	1370	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284925.4	210692	7900	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284925.4	210692	34000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284925.4	210692	3620000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284925.4	210692	3620000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284925.4	210692	12.5	NO	NO	0.08	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Ethylbenzene	< 0.001	mg/kg	0.001	284925.4	210692	7660	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Toluene	< 0.001	mg/kg	0.001	284925.4	210692	27900	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Benzene	< 0.001	mg/kg	0.001	284925.4	210692	12.5	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	o-Xylene	< 0.001	mg/kg	0.001	284925.4	210692	3030	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	m & p-Xylene	< 0.001	mg/kg	0.001	284925.4	210692	2720	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	pH	8	-	4	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	pH	7.8	-	4	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Loss On Ignition	18	%	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Organic Matter	44	%	0.4	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Total Organic Carbon	16	%	0.2	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Dry Mass Of Test Portion	0.175	kg	0	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Anthracene	0.35	mg/kg	0.1	284925.4	210692	535000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Pyrene	0.24	mg/kg	0.1	284925.4	210692	54100	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Total PCBs (7 Congeners)	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284925.4	210692	49.1	NO	NO	0.01	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Fluoranthene	0.42	mg/kg	0.1	284925.4	210692	72200	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Acenaphthylene	< 0.1	mg/kg	0.1	284925.4	210692	83600	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Chrysene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284925.4	210692	76.3	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Cyanide (Total)	< 0.5	mg/kg	0.5	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Lead	42	mg/kg	0.5	284925.4	210692	2310	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Mercury	0.11	mg/kg	0.05	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Nickel	31	mg/kg	0.5	284925.4	210692	1770	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Arsenic	6.8	mg/kg	0.5	284925.4	210692	635	NO	NO	0.01	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Cadmium	0.2	mg/kg	0.1	284925.4	210692	410	NO	NO	0	POINT (284925.38 210692.01)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH101	241.16	9.5	Chromium	4.3	mg/kg	0.5	284925.4	210692	208000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Copper	51	mg/kg	0.5	284925.4	210692	106000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Vanadium	5.7	mg/kg	0.5	284925.4	210692	7490	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Zinc	83	mg/kg	0.5	284925.4	210692	1100000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Selenium	3.2	mg/kg	0.25	284925.4	210692	13000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Acenaphthene	1.4	mg/kg	0.1	284925.4	210692	83600	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Phenanthrene	1.4	mg/kg	0.1	284925.4	210692	535000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Fluorene	0.7	mg/kg	0.1	284925.4	210692	66500	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Naphthalene	8	mg/kg	0.1	284925.4	210692	90.1	NO	NO	0.09	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Cyanide (Free)	< 0.5	mg/kg	0.5	284925.4	210692	373	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Total Phenols	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Total Of 16 PAH's	13	mg/kg	2	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Total (Of 17) PAH's	13	mg/kg	2	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Total BTEX	< 0.01	mg/kg	0.01	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284925.4	210692	27900	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284925.4	210692	2210	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284925.4	210692	12300	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284925.4	210692	41300	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284925.4	210692	28400	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284925.4	210692	28400	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	TPH Total WAC	< 10.0	mg/kg	10	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284925.4	210692	4490	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284925.4	210692	10400	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284925.4	210692	1370	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284925.4	210692	7900	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284925.4	210692	34000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284925.4	210692	3620000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284925.4	210692	3620000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284925.4	210692	12.5	NO	NO	0.08	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Acid Neutralisation Capacity	< 0.002	mol/kg	0	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Ethylbenzene	< 0.001	mg/kg	0.001	284925.4	210692	7660	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Toluene	< 0.001	mg/kg	0.001	284925.4	210692	27900	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Benzene	< 0.001	mg/kg	0.001	284925.4	210692	12.5	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	o-Xylene	< 0.001	mg/kg	0.001	284925.4	210692	3030	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	m & p-Xylene	< 0.001	mg/kg	0.001	284925.4	210692	2720	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	pH	6.9	-	4	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Organic Matter	30	%	0.4	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Anthracene	< 0.1	mg/kg	0.1	284925.4	210692	535000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Pyrene	< 0.1	mg/kg	0.1	284925.4	210692	54100	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284925.4	210692	49.1	NO	NO	0.01	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH101	241.16	0.3	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Fluoranthene	< 0.1	mg/kg	0.1	284925.4	210692	72200	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Acenaphthylene	< 0.1	mg/kg	0.1	284925.4	210692	83600	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Chrysene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284925.4	210692	76.3	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Cyanide (Total)	< 0.5	mg/kg	0.5	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Lead	62	mg/kg	0.5	284925.4	210692	2310	NO	NO	0.03	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Mercury	0.1	mg/kg	0.05	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Nickel	38	mg/kg	0.5	284925.4	210692	1770	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Arsenic	14	mg/kg	0.5	284925.4	210692	635	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Boron (Hot Water Soluble)	0.59	mg/kg	0.4	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Cadmium	0.38	mg/kg	0.1	284925.4	210692	410	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Chromium	5	mg/kg	0.5	284925.4	210692	208000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Copper	71	mg/kg	0.5	284925.4	210692	106000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Vanadium	8.1	mg/kg	0.5	284925.4	210692	7490	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Zinc	240	mg/kg	0.5	284925.4	210692	1100000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Selenium	1.5	mg/kg	0.25	284925.4	210692	13000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Acenaphthene	< 0.1	mg/kg	0.1	284925.4	210692	83600	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Phenanthrene	0.2	mg/kg	0.1	284925.4	210692	535000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Fluorene	< 0.1	mg/kg	0.1	284925.4	210692	66500	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Naphthalene	1.1	mg/kg	0.1	284925.4	210692	90.1	NO	NO	0.01	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Cyanide (Free)	< 0.5	mg/kg	0.5	284925.4	210692	373	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Total Phenols	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Total Of 16 PAH's	< 2.0	mg/kg	2	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284925.4	210692	27900	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284925.4	210692	2210	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284925.4	210692	12300	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284925.4	210692	41300	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284925.4	210692	28400	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284925.4	210692	28400	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284925.4	210692	4490	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284925.4	210692	10400	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284925.4	210692	1370	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284925.4	210692	7900	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284925.4	210692	34000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284925.4	210692	3620000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284925.4	210692	3620000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284925.4	210692	12.5	NO	NO	0.08	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284925.4	210692		NO	NO		POINT (284925.38 210692.01)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH101	241.16	0.3	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Ethylbenzene	< 0.001	mg/kg	0.001	284925.4	210692	7660	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Toluene	< 0.001	mg/kg	0.001	284925.4	210692	27900	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Benzene	< 0.001	mg/kg	0.001	284925.4	210692	12.5	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	o-Xylene	< 0.001	mg/kg	0.001	284925.4	210692	3030	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	m & p-Xylene	< 0.001	mg/kg	0.001	284925.4	210692	2720	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	pH	6.9	-	4	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	pH	8.3	-	4	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Loss On Ignition	18	%	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Organic Matter	29	%	0.4	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Total Organic Carbon	16	%	0.2	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Dry Mass Of Test Portion	0.175	kg	0	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Anthracene	< 0.1	mg/kg	0.1	284925.4	210692	535000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Pyrene	< 0.1	mg/kg	0.1	284925.4	210692	54100	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Total PCBs (7 Congeners)	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284925.4	210692	49.1	NO	NO	0.01	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Fluoranthene	< 0.1	mg/kg	0.1	284925.4	210692	72200	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Acenaphthylene	< 0.1	mg/kg	0.1	284925.4	210692	83600	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Chrysene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284925.4	210692	76.3	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Cyanide (Total)	< 0.5	mg/kg	0.5	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Lead	66	mg/kg	0.5	284925.4	210692	2310	NO	NO	0.03	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Mercury	0.08	mg/kg	0.05	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Nickel	31	mg/kg	0.5	284925.4	210692	1770	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Arsenic	18	mg/kg	0.5	284925.4	210692	635	NO	NO	0.03	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Boron (Hot Water Soluble)	0.46	mg/kg	0.4	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Cadmium	0.62	mg/kg	0.1	284925.4	210692	410	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Chromium	6.3	mg/kg	0.5	284925.4	210692	208000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Copper	87	mg/kg	0.5	284925.4	210692	106000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Vanadium	7.6	mg/kg	0.5	284925.4	210692	7490	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Zinc	280	mg/kg	0.5	284925.4	210692	1100000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Selenium	1.6	mg/kg	0.25	284925.4	210692	13000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Acenaphthene	< 0.1	mg/kg	0.1	284925.4	210692	83600	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Phenanthrene	0.29	mg/kg	0.1	284925.4	210692	535000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Fluorene	< 0.1	mg/kg	0.1	284925.4	210692	66500	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Naphthalene	0.86	mg/kg	0.1	284925.4	210692	90.1	NO	NO	0.01	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Cyanide (Free)	< 0.5	mg/kg	0.5	284925.4	210692	373	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Total Phenols	< 0.1	mg/kg	0.1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Total Of 16 PAH's	< 2.0	mg/kg	2	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Total (Of 17) PAH's	< 2.0	mg/kg	2	284925.4	210692		NO	NO		POINT (284925.38 210692.01)

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Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH101	241.16	1	Total BTEX	< 0.01	mg/kg	0.01	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284925.4	210692	27900	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284925.4	210692	2210	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284925.4	210692	12300	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284925.4	210692	41300	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284925.4	210692	28400	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284925.4	210692	28400	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	TPH Total WAC	63	mg/kg	10	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284925.4	210692	4490	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284925.4	210692	10400	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284925.4	210692	1370	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284925.4	210692	7900	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284925.4	210692	34000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284925.4	210692	3620000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284925.4	210692	3620000	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284925.4	210692	12.5	NO	NO	0.08	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Acid Neutralisation Capacity	< 0.002	mol/kg	0	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Ethylbenzene	< 0.001	mg/kg	0.001	284925.4	210692	7660	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Toluene	< 0.001	mg/kg	0.001	284925.4	210692	27900	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	Benzene	< 0.001	mg/kg	0.001	284925.4	210692	12.5	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	o-Xylene	< 0.001	mg/kg	0.001	284925.4	210692	3030	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	1	m & p-Xylene	< 0.001	mg/kg	0.001	284925.4	210692	2720	NO	NO	0	POINT (284925.38 210692.01)
S1-BH102	230.73	0.2	pH	8.3	-	4	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Organic Matter	53	%	0.4	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Anthracene	< 0.1	mg/kg	0.1	284544.5	210695.4	535000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Pyrene	< 0.1	mg/kg	0.1	284544.5	210695.4	54100	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284544.5	210695.4	49.1	NO	NO	0.01	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Fluoranthene	0.14	mg/kg	0.1	284544.5	210695.4	72200	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Acenaphthylene	< 0.1	mg/kg	0.1	284544.5	210695.4	83600	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Chrysene	< 0.1	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284544.5	210695.4	76.3	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Cyanide (Total)	< 0.5	mg/kg	0.5	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Lead	45	mg/kg	0.5	284544.5	210695.4	2310	NO	NO	0.02	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Mercury	0.37	mg/kg	0.05	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Nickel	21	mg/kg	0.5	284544.5	210695.4	1770	NO	NO	0.01	POINT (284544.49 210695.4)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH102	230.73	0.2	Arsenic	20	mg/kg	0.5	284544.5	210695.4	635	NO	NO	0.03	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Cadmium	0.13	mg/kg	0.1	284544.5	210695.4	410	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Chromium	19	mg/kg	0.5	284544.5	210695.4	208000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Copper	81	mg/kg	0.5	284544.5	210695.4	106000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Vanadium	17	mg/kg	0.5	284544.5	210695.4	7490	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Zinc	47	mg/kg	0.5	284544.5	210695.4	1100000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Selenium	2.7	mg/kg	0.25	284544.5	210695.4	13000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Acenaphthene	< 0.1	mg/kg	0.1	284544.5	210695.4	83600	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Phenanthrene	0.35	mg/kg	0.1	284544.5	210695.4	535000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Fluorene	< 0.1	mg/kg	0.1	284544.5	210695.4	66500	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Naphthalene	1.8	mg/kg	0.1	284544.5	210695.4	90.1	NO	NO	0.02	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Cyanide (Free)	< 0.5	mg/kg	0.5	284544.5	210695.4	373	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Total Phenols	< 0.1	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Total Of 16 PAH's	2.3	mg/kg	2	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284544.5	210695.4	27900	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284544.5	210695.4	2210	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284544.5	210695.4	12300	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284544.5	210695.4	41300	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284544.5	210695.4	28400	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284544.5	210695.4	28400	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284544.5	210695.4	4490	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284544.5	210695.4	10400	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284544.5	210695.4	1370	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284544.5	210695.4	7900	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284544.5	210695.4	34000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284544.5	210695.4	3620000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284544.5	210695.4	3620000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284544.5	210695.4	12.5	NO	NO	0.08	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Ethylbenzene	< 0.001	mg/kg	0.001	284544.5	210695.4	7660	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Toluene	< 0.001	mg/kg	0.001	284544.5	210695.4	27900	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Benzene	< 0.001	mg/kg	0.001	284544.5	210695.4	12.5	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	o-Xylene	< 0.001	mg/kg	0.001	284544.5	210695.4	3030	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	m & p-Xylene	< 0.001	mg/kg	0.001	284544.5	210695.4	2720	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	pH	4.7	-	4	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	pH	4.9	-	4	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Loss On Ignition	11	%	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Organic Matter	88	%	0.4	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Total Organic Carbon	60	%	0.2	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Dry Mass Of Test Portion	0.175	kg	0	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Anthracene	< 0.1	mg/kg	0.1	284544.5	210695.4	535000	NO	NO	0	POINT (284544.49 210695.4)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH102	230.73	3	Pyrene	0.13	mg/kg	0.1	284544.5	210695.4	54100	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Total PCBs (7 Congeners)	< 0.1	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284544.5	210695.4	49.1	NO	NO	0.01	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Fluoranthene	0.18	mg/kg	0.1	284544.5	210695.4	72200	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Acenaphthylene	< 0.1	mg/kg	0.1	284544.5	210695.4	83600	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Chrysene	< 0.1	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284544.5	210695.4	76.3	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Cyanide (Total)	1	mg/kg	0.5	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Lead	6.2	mg/kg	0.5	284544.5	210695.4	2310	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Mercury	< 0.05	mg/kg	0.05	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Nickel	5.4	mg/kg	0.5	284544.5	210695.4	1770	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Arsenic	1.8	mg/kg	0.5	284544.5	210695.4	635	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Boron (Hot Water Soluble)	1	mg/kg	0.4	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Cadmium	< 0.1	mg/kg	0.1	284544.5	210695.4	410	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Chromium	2.8	mg/kg	0.5	284544.5	210695.4	208000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Copper	9.3	mg/kg	0.5	284544.5	210695.4	106000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Vanadium	3.7	mg/kg	0.5	284544.5	210695.4	7490	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Zinc	14	mg/kg	0.5	284544.5	210695.4	1100000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Selenium	0.63	mg/kg	0.25	284544.5	210695.4	13000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Acenaphthene	0.12	mg/kg	0.1	284544.5	210695.4	83600	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Phenanthrene	0.32	mg/kg	0.1	284544.5	210695.4	535000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Fluorene	0.13	mg/kg	0.1	284544.5	210695.4	66500	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Naphthalene	0.85	mg/kg	0.1	284544.5	210695.4	90.1	NO	NO	0.01	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Cyanide (Free)	< 0.5	mg/kg	0.5	284544.5	210695.4	373	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Total Phenols	< 0.1	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Total Of 16 PAH's	< 2.0	mg/kg	2	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Total (Of 17) PAH's	< 2.0	mg/kg	2	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Total BTEX	1.3	mg/kg	0.01	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284544.5	210695.4	27900	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284544.5	210695.4	2210	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284544.5	210695.4	12300	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284544.5	210695.4	41300	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284544.5	210695.4	28400	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284544.5	210695.4	28400	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	TPH Total WAC	< 10.0	mg/kg	10	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284544.5	210695.4	4490	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284544.5	210695.4	10400	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284544.5	210695.4	1370	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284544.5	210695.4	7900	NO	NO	0	POINT (284544.49 210695.4)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH102	230.73	3	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284544.5	210695.4	34000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284544.5	210695.4	3620000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284544.5	210695.4	3620000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284544.5	210695.4	12.5	NO	NO	0.08	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Acid Neutralisation Capacity	0.008	mol/kg	0	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Ethylbenzene	0.024	mg/kg	0.001	284544.5	210695.4	7660	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Toluene	0.18	mg/kg	0.001	284544.5	210695.4	27900	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Benzene	0.036	mg/kg	0.001	284544.5	210695.4	12.5	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	o-Xylene	0.035	mg/kg	0.001	284544.5	210695.4	3030	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	m & p-Xylene	0.058	mg/kg	0.001	284544.5	210695.4	2720	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	pH	7.7	-	4	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Organic Matter	81	%	0.4	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Anthracene	0.12	mg/kg	0.1	284544.5	210695.4	535000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Pyrene	0.23	mg/kg	0.1	284544.5	210695.4	54100	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284544.5	210695.4	49.1	NO	NO	0.01	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Benzo[g,h,i]perylene	0.18	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Indeno(1,2,3-c,d)Pyrene	0.17	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Benzo[b]fluoranthene	0.3	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Fluoranthene	0.29	mg/kg	0.1	284544.5	210695.4	72200	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Benzo[k]fluoranthene	0.11	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Acenaphthylene	< 0.1	mg/kg	0.1	284544.5	210695.4	83600	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Chrysene	0.18	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Benzo[a]pyrene	0.12	mg/kg	0.1	284544.5	210695.4	76.3	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Dibenz(a,h)Anthracene	0.12	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Benzo[a]anthracene	0.13	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Cyanide (Total)	< 0.5	mg/kg	0.5	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Lead	43	mg/kg	0.5	284544.5	210695.4	2310	NO	NO	0.02	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Mercury	0.1	mg/kg	0.05	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Nickel	25	mg/kg	0.5	284544.5	210695.4	1770	NO	NO	0.01	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Arsenic	7.1	mg/kg	0.5	284544.5	210695.4	635	NO	NO	0.01	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Boron (Hot Water Soluble)	0.57	mg/kg	0.4	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Cadmium	0.18	mg/kg	0.1	284544.5	210695.4	410	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Chromium	10	mg/kg	0.5	284544.5	210695.4	208000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Copper	56	mg/kg	0.5	284544.5	210695.4	106000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Vanadium	14	mg/kg	0.5	284544.5	210695.4	7490	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Zinc	60	mg/kg	0.5	284544.5	210695.4	1100000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Selenium	0.87	mg/kg	0.25	284544.5	210695.4	13000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Acenaphthene	0.12	mg/kg	0.1	284544.5	210695.4	83600	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Phenanthrene	0.52	mg/kg	0.1	284544.5	210695.4	535000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Fluorene	0.13	mg/kg	0.1	284544.5	210695.4	66500	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Naphthalene	1.3	mg/kg	0.1	284544.5	210695.4	90.1	NO	NO	0.01	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Cyanide (Free)	< 0.5	mg/kg	0.5	284544.5	210695.4	373	NO	NO	0	POINT (284544.49 210695.4)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH102	230.73	0.5	Total Phenols	< 0.1	mg/kg	0.1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Total Of 16 PAH's	4	mg/kg	2	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284544.5	210695.4	27900	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284544.5	210695.4	2210	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284544.5	210695.4	12300	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284544.5	210695.4	41300	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284544.5	210695.4	28400	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284544.5	210695.4	28400	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284544.5	210695.4	4490	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284544.5	210695.4	10400	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284544.5	210695.4	1370	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284544.5	210695.4	7900	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284544.5	210695.4	34000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284544.5	210695.4	3620000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284544.5	210695.4	3620000	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284544.5	210695.4	12.5	NO	NO	0.08	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Ethylbenzene	< 0.001	mg/kg	0.001	284544.5	210695.4	7660	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Toluene	< 0.001	mg/kg	0.001	284544.5	210695.4	27900	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Benzene	< 0.001	mg/kg	0.001	284544.5	210695.4	12.5	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	o-Xylene	< 0.001	mg/kg	0.001	284544.5	210695.4	3030	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	m & p-Xylene	< 0.001	mg/kg	0.001	284544.5	210695.4	2720	NO	NO	0	POINT (284544.49 210695.4)
S1-BH103	234.33	0.3	pH	8.1	-	4	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	pH	8.1	-	4	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Loss On Ignition	2	%	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Organic Matter	65	%	0.4	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Total Organic Carbon	38	%	0.2	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Dry Mass Of Test Portion	0.175	kg	0	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Anthracene	0.3	mg/kg	0.1	284603.2	210646.5	535000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Pyrene	0.67	mg/kg	0.1	284603.2	210646.5	54100	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Total PCBs (7 Congeners)	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284603.2	210646.5	49.1	NO	NO	0.01	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Fluoranthene	0.92	mg/kg	0.1	284603.2	210646.5	72200	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Acenaphthylene	< 0.1	mg/kg	0.1	284603.2	210646.5	83600	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Chrysene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284603.2	210646.5	76.3	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH103	234.33	0.3	Cyanide (Total)	< 0.5	mg/kg	0.5	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Lead	46	mg/kg	0.5	284603.2	210646.5	2310	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Mercury	0.59	mg/kg	0.05	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Nickel	38	mg/kg	0.5	284603.2	210646.5	1770	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Arsenic	16	mg/kg	0.5	284603.2	210646.5	635	NO	NO	0.03	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Cadmium	2.3	mg/kg	0.1	284603.2	210646.5	410	NO	NO	0.01	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Chromium	8	mg/kg	0.5	284603.2	210646.5	208000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Copper	57	mg/kg	0.5	284603.2	210646.5	106000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Vanadium	9.9	mg/kg	0.5	284603.2	210646.5	7490	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Zinc	420	mg/kg	0.5	284603.2	210646.5	1100000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Selenium	2	mg/kg	0.25	284603.2	210646.5	13000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Acenaphthene	0.45	mg/kg	0.1	284603.2	210646.5	83600	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Phenanthrene	1	mg/kg	0.1	284603.2	210646.5	535000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Fluorene	0.28	mg/kg	0.1	284603.2	210646.5	66500	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Naphthalene	1.1	mg/kg	0.1	284603.2	210646.5	90.1	NO	NO	0.01	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Cyanide (Free)	< 0.5	mg/kg	0.5	284603.2	210646.5	373	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Total Phenols	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Total (Of 17) PAH's	4.9	mg/kg	2	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Total Of 16 PAH's	4.7	mg/kg	2	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Total BTEX	< 0.01	mg/kg	0.01	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284603.2	210646.5	27900	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284603.2	210646.5	2210	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284603.2	210646.5	12300	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284603.2	210646.5	41300	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284603.2	210646.5	28400	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284603.2	210646.5	28400	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	TPH Total WAC	< 10.0	mg/kg	10	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284603.2	210646.5	4490	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284603.2	210646.5	10400	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284603.2	210646.5	1370	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284603.2	210646.5	7900	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284603.2	210646.5	34000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284603.2	210646.5	3620000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284603.2	210646.5	3620000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284603.2	210646.5	12.5	NO	NO	0.08	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Acid Neutralisation Capacity	0.015	mol/kg	0	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Ethylbenzene	< 0.001	mg/kg	0.001	284603.2	210646.5	7660	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Toluene	< 0.001	mg/kg	0.001	284603.2	210646.5	27900	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	Benzene	< 0.001	mg/kg	0.001	284603.2	210646.5	12.5	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	0.3	o-Xylene	< 0.001	mg/kg	0.001	284603.2	210646.5	3030	NO	NO	0	POINT (284603.15 210646.48)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH103	234.33	0.3	m & p-Xylene	< 0.001	mg/kg	0.001	284603.2	210646.5	2720	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	pH	8.3	-	4	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Organic Matter	78	%	0.4	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Anthracene	< 0.1	mg/kg	0.1	284603.2	210646.5	535000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Pyrene	0.38	mg/kg	0.1	284603.2	210646.5	54100	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284603.2	210646.5	49.1	NO	NO	0.01	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Fluoranthene	0.48	mg/kg	0.1	284603.2	210646.5	72200	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Acenaphthylene	< 0.1	mg/kg	0.1	284603.2	210646.5	83600	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Chrysene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284603.2	210646.5	76.3	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Cyanide (Total)	< 0.5	mg/kg	0.5	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Lead	150	mg/kg	0.5	284603.2	210646.5	2310	NO	NO	0.06	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Mercury	0.14	mg/kg	0.05	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Nickel	37	mg/kg	0.5	284603.2	210646.5	1770	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Arsenic	11	mg/kg	0.5	284603.2	210646.5	635	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Boron (Hot Water Soluble)	0.42	mg/kg	0.4	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Cadmium	0.23	mg/kg	0.1	284603.2	210646.5	410	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Chromium	17	mg/kg	0.5	284603.2	210646.5	208000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Copper	40	mg/kg	0.5	284603.2	210646.5	106000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Vanadium	14	mg/kg	0.5	284603.2	210646.5	7490	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Zinc	130	mg/kg	0.5	284603.2	210646.5	1100000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Selenium	9	mg/kg	0.25	284603.2	210646.5	13000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Acenaphthene	< 0.1	mg/kg	0.1	284603.2	210646.5	83600	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Phenanthrene	1	mg/kg	0.1	284603.2	210646.5	535000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Fluorene	< 0.1	mg/kg	0.1	284603.2	210646.5	66500	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Naphthalene	1.3	mg/kg	0.1	284603.2	210646.5	90.1	NO	NO	0.01	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Cyanide (Free)	< 0.5	mg/kg	0.5	284603.2	210646.5	373	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Total Phenols	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Total Of 16 PAH's	3.2	mg/kg	2	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284603.2	210646.5	27900	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284603.2	210646.5	2210	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284603.2	210646.5	12300	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284603.2	210646.5	41300	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284603.2	210646.5	28400	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284603.2	210646.5	28400	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284603.2	210646.5	4490	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284603.2	210646.5	10400	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284603.2	210646.5	1370	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284603.2	210646.5	7900	NO	NO	0	POINT (284603.15 210646.48)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH103	234.33	1	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284603.2	210646.5	34000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284603.2	210646.5	3620000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284603.2	210646.5	3620000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284603.2	210646.5	12.5	NO	NO	0.08	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Ethylbenzene	< 0.001	mg/kg	0.001	284603.2	210646.5	7660	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Toluene	< 0.001	mg/kg	0.001	284603.2	210646.5	27900	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Benzene	< 0.001	mg/kg	0.001	284603.2	210646.5	12.5	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	o-Xylene	< 0.001	mg/kg	0.001	284603.2	210646.5	3030	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	m & p-Xylene	< 0.001	mg/kg	0.001	284603.2	210646.5	2720	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	pH	8.2	-	4	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	pH	7.7	-	4	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Loss On Ignition	8.3	%	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Organic Matter	8.3	%	0.4	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Total Organic Carbon	1.5	%	0.2	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Dry Mass Of Test Portion	0.175	kg	0	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Anthracene	< 0.1	mg/kg	0.1	284603.2	210646.5	535000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Pyrene	< 0.1	mg/kg	0.1	284603.2	210646.5	54100	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Total PCBs (7 Congeners)	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284603.2	210646.5	49.1	NO	NO	0.01	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Fluoranthene	< 0.1	mg/kg	0.1	284603.2	210646.5	72200	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Acenaphthylene	< 0.1	mg/kg	0.1	284603.2	210646.5	83600	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Chrysene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284603.2	210646.5	76.3	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Cyanide (Total)	< 0.5	mg/kg	0.5	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Lead	20	mg/kg	0.5	284603.2	210646.5	2310	NO	NO	0.01	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Mercury	0.07	mg/kg	0.05	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Nickel	34	mg/kg	0.5	284603.2	210646.5	1770	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Arsenic	7.6	mg/kg	0.5	284603.2	210646.5	635	NO	NO	0.01	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Boron (Hot Water Soluble)	0.48	mg/kg	0.4	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Cadmium	0.1	mg/kg	0.1	284603.2	210646.5	410	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Chromium	5.7	mg/kg	0.5	284603.2	210646.5	208000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Copper	37	mg/kg	0.5	284603.2	210646.5	106000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Vanadium	6.1	mg/kg	0.5	284603.2	210646.5	7490	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Zinc	73	mg/kg	0.5	284603.2	210646.5	1100000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Selenium	1.5	mg/kg	0.25	284603.2	210646.5	13000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Acenaphthene	< 0.1	mg/kg	0.1	284603.2	210646.5	83600	NO	NO	0	POINT (284603.15 210646.48)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH103	234.33	2.2	Phenanthrene	< 0.1	mg/kg	0.1	284603.2	210646.5	535000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Fluorene	< 0.1	mg/kg	0.1	284603.2	210646.5	66500	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Naphthalene	< 0.1	mg/kg	0.1	284603.2	210646.5	90.1	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Cyanide (Free)	< 0.5	mg/kg	0.5	284603.2	210646.5	373	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Total Phenols	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Total Of 16 PAH's	< 2.0	mg/kg	2	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Total (Of 17) PAH's	< 2.0	mg/kg	2	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Total BTEX	< 0.01	mg/kg	0.01	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284603.2	210646.5	27900	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284603.2	210646.5	2210	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284603.2	210646.5	12300	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284603.2	210646.5	41300	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284603.2	210646.5	28400	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Aromatic TPH >C21-C35	1100	mg/kg	1	284603.2	210646.5	28400	NO	NO	0.04	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	TPH Total WAC	< 10.0	mg/kg	10	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284603.2	210646.5	4490	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284603.2	210646.5	10400	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284603.2	210646.5	1370	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284603.2	210646.5	7900	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284603.2	210646.5	34000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284603.2	210646.5	3620000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Aliphatic TPH >C21-C35	390	mg/kg	1	284603.2	210646.5	3620000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Aliphatic TPH >C35-C44	67	mg/kg	1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284603.2	210646.5	12.5	NO	NO	0.08	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Total Petroleum Hydrocarbor	1500	mg/kg	10	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Total Aliphatic Hydrocarbons	450	mg/kg	5	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Total Aromatic Hydrocarbons	1100	mg/kg	5	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Acid Neutralisation Capacity	< 0.002	mol/kg	0	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Ethylbenzene	< 0.001	mg/kg	0.001	284603.2	210646.5	7660	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Toluene	< 0.001	mg/kg	0.001	284603.2	210646.5	27900	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Benzene	< 0.001	mg/kg	0.001	284603.2	210646.5	12.5	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	o-Xylene	< 0.001	mg/kg	0.001	284603.2	210646.5	3030	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	m & p-Xylene	< 0.001	mg/kg	0.001	284603.2	210646.5	2720	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	pH	5.6	-	4	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	7	Organic Matter	54	%	0.4	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	7	Anthracene	< 0.1	mg/kg	0.1	284603.2	210646.5	535000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Pyrene	< 0.1	mg/kg	0.1	284603.2	210646.5	54100	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284603.2	210646.5	49.1	NO	NO	0.01	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	7	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	7	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	7	Fluoranthene	< 0.1	mg/kg	0.1	284603.2	210646.5	72200	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	7	Acenaphthylene	< 0.1	mg/kg	0.1	284603.2	210646.5	83600	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Chrysene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH103	234.33	7	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284603.2	210646.5	76.3	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	7	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	7	Cyanide (Total)	< 0.5	mg/kg	0.5	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	7	Lead	0.96	mg/kg	0.5	284603.2	210646.5	2310	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Mercury	< 0.05	mg/kg	0.05	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	7	Nickel	2	mg/kg	0.5	284603.2	210646.5	1770	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Arsenic	< 0.5	mg/kg	0.5	284603.2	210646.5	635	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	7	Cadmium	< 0.1	mg/kg	0.1	284603.2	210646.5	410	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Chromium	0.7	mg/kg	0.5	284603.2	210646.5	208000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Copper	2.3	mg/kg	0.5	284603.2	210646.5	106000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Vanadium	0.7	mg/kg	0.5	284603.2	210646.5	7490	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Zinc	1.6	mg/kg	0.5	284603.2	210646.5	1100000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Selenium	0.38	mg/kg	0.25	284603.2	210646.5	13000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Acenaphthene	< 0.1	mg/kg	0.1	284603.2	210646.5	83600	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Phenanthrene	< 0.1	mg/kg	0.1	284603.2	210646.5	535000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Fluorene	< 0.1	mg/kg	0.1	284603.2	210646.5	66500	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Naphthalene	0.19	mg/kg	0.1	284603.2	210646.5	90.1	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Cyanide (Free)	< 0.5	mg/kg	0.5	284603.2	210646.5	373	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Total Phenols	< 0.1	mg/kg	0.1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	7	Total Of 16 PAH's	< 2.0	mg/kg	2	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	7	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284603.2	210646.5	27900	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284603.2	210646.5	2210	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284603.2	210646.5	12300	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284603.2	210646.5	41300	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284603.2	210646.5	28400	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284603.2	210646.5	28400	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	7	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284603.2	210646.5	4490	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284603.2	210646.5	10400	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284603.2	210646.5	1370	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284603.2	210646.5	7900	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284603.2	210646.5	34000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284603.2	210646.5	3620000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284603.2	210646.5	3620000	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	7	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284603.2	210646.5	12.5	NO	NO	0.08	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	7	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	7	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	7	Ethylbenzene	< 0.001	mg/kg	0.001	284603.2	210646.5	7660	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Toluene	< 0.001	mg/kg	0.001	284603.2	210646.5	27900	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	Benzene	< 0.001	mg/kg	0.001	284603.2	210646.5	12.5	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	o-Xylene	< 0.001	mg/kg	0.001	284603.2	210646.5	3030	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	7	m & p-Xylene	< 0.001	mg/kg	0.001	284603.2	210646.5	2720	NO	NO	0	POINT (284603.15 210646.48)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH105	236.49	0.2	pH	8.2	-	4	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Organic Matter	100	%	0.4	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Anthracene	< 0.1	mg/kg	0.1	284719	210649.9	535000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Pyrene	< 0.1	mg/kg	0.1	284719	210649.9	54100	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284719	210649.9	49.1	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Fluoranthene	< 0.1	mg/kg	0.1	284719	210649.9	72200	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Acenaphthylene	< 0.1	mg/kg	0.1	284719	210649.9	83600	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Chrysene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284719	210649.9	76.3	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Cyanide (Total)	< 0.5	mg/kg	0.5	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Lead	13	mg/kg	0.5	284719	210649.9	2310	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Mercury	0.05	mg/kg	0.05	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Nickel	18	mg/kg	0.5	284719	210649.9	1770	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Arsenic	5	mg/kg	0.5	284719	210649.9	635	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Cadmium	< 0.1	mg/kg	0.1	284719	210649.9	410	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Chromium	4.6	mg/kg	0.5	284719	210649.9	208000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Copper	30	mg/kg	0.5	284719	210649.9	106000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Vanadium	6.5	mg/kg	0.5	284719	210649.9	7490	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Zinc	29	mg/kg	0.5	284719	210649.9	1100000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Selenium	0.91	mg/kg	0.25	284719	210649.9	13000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Acenaphthene	< 0.1	mg/kg	0.1	284719	210649.9	83600	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Phenanthrene	0.47	mg/kg	0.1	284719	210649.9	535000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Fluorene	< 0.1	mg/kg	0.1	284719	210649.9	66500	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Naphthalene	0.53	mg/kg	0.1	284719	210649.9	90.1	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Cyanide (Free)	< 0.5	mg/kg	0.5	284719	210649.9	373	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Total Phenols	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Total Of 16 PAH's	< 2.0	mg/kg	2	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284719	210649.9	27900	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284719	210649.9	2210	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284719	210649.9	12300	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284719	210649.9	41300	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284719	210649.9	28400	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284719	210649.9	28400	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284719	210649.9	4490	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284719	210649.9	10400	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284719	210649.9	1370	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284719	210649.9	7900	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284719	210649.9	34000	NO	NO	0	POINT (284718.99 210649.88)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH105	236.49	0.2	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284719	210649.9	3620000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284719	210649.9	3620000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284719	210649.9	12.5	NO	NO	0.08	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Ethylbenzene	< 0.001	mg/kg	0.001	284719	210649.9	7660	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Toluene	0.015	mg/kg	0.001	284719	210649.9	27900	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Benzene	0.032	mg/kg	0.001	284719	210649.9	12.5	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	o-Xylene	< 0.001	mg/kg	0.001	284719	210649.9	3030	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	m & p-Xylene	< 0.001	mg/kg	0.001	284719	210649.9	2720	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	pH	8.1	-	4	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	pH	8.1	-	4	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Loss On Ignition	19	%	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Organic Matter	100	%	0.4	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Total Organic Carbon	62	%	0.2	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Dry Mass Of Test Portion	0.175	kg	0	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Anthracene	0.22	mg/kg	0.1	284719	210649.9	535000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Pyrene	0.47	mg/kg	0.1	284719	210649.9	54100	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Total PCBs (7 Congeners)	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284719	210649.9	49.1	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Benzo[b]fluoranthene	0.53	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Fluoranthene	0.65	mg/kg	0.1	284719	210649.9	72200	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Acenaphthylene	< 0.1	mg/kg	0.1	284719	210649.9	83600	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Chrysene	0.41	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284719	210649.9	76.3	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Benzo[a]anthracene	0.28	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Cyanide (Total)	< 0.5	mg/kg	0.5	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Lead	27	mg/kg	0.5	284719	210649.9	2310	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Mercury	0.26	mg/kg	0.05	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Nickel	8.1	mg/kg	0.5	284719	210649.9	1770	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Arsenic	4.9	mg/kg	0.5	284719	210649.9	635	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Cadmium	0.1	mg/kg	0.1	284719	210649.9	410	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Chromium	1.4	mg/kg	0.5	284719	210649.9	208000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Copper	35	mg/kg	0.5	284719	210649.9	106000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Vanadium	2.9	mg/kg	0.5	284719	210649.9	7490	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Zinc	22	mg/kg	0.5	284719	210649.9	1100000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Selenium	1.3	mg/kg	0.25	284719	210649.9	13000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Acenaphthene	0.3	mg/kg	0.1	284719	210649.9	83600	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Phenanthrene	1.1	mg/kg	0.1	284719	210649.9	535000	NO	NO	0	POINT (284718.99 210649.88)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH105	236.49	1.7	Fluorene	0.25	mg/kg	0.1	284719	210649.9	66500	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Naphthalene	1.6	mg/kg	0.1	284719	210649.9	90.1	NO	NO	0.02	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Cyanide (Free)	< 0.5	mg/kg	0.5	284719	210649.9	373	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Total Phenols	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Total Of 16 PAH's	5.8	mg/kg	2	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Total (Of 17) PAH's	6.5	mg/kg	2	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Total BTEX	< 0.01	mg/kg	0.01	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284719	210649.9	27900	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284719	210649.9	2210	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284719	210649.9	12300	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284719	210649.9	41300	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284719	210649.9	28400	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284719	210649.9	28400	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	TPH Total WAC	140	mg/kg	10	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284719	210649.9	4490	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284719	210649.9	10400	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284719	210649.9	1370	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284719	210649.9	7900	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284719	210649.9	34000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284719	210649.9	3620000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284719	210649.9	3620000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284719	210649.9	12.5	NO	NO	0.08	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Acid Neutralisation Capacity	0.002	mol/kg	0	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Ethylbenzene	< 0.001	mg/kg	0.001	284719	210649.9	7660	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Toluene	< 0.001	mg/kg	0.001	284719	210649.9	27900	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	Benzene	< 0.001	mg/kg	0.001	284719	210649.9	12.5	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	o-Xylene	< 0.001	mg/kg	0.001	284719	210649.9	3030	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	1.7	m & p-Xylene	< 0.001	mg/kg	0.001	284719	210649.9	2720	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	pH	8.5	-	4	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Organic Matter	95	%	0.4	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Anthracene	0.17	mg/kg	0.1	284719	210649.9	535000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Pyrene	0.34	mg/kg	0.1	284719	210649.9	54100	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284719	210649.9	49.1	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Benzo[b]fluoranthene	0.4	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Fluoranthene	0.42	mg/kg	0.1	284719	210649.9	72200	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Acenaphthylene	< 0.1	mg/kg	0.1	284719	210649.9	83600	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Chrysene	0.28	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284719	210649.9	76.3	NO	NO	0	POINT (284718.99 210649.88)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH105	236.49	2.7	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Benzo[a]anthracene	0.19	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Cyanide (Total)	< 0.5	mg/kg	0.5	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Lead	37	mg/kg	0.5	284719	210649.9	2310	NO	NO	0.02	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Mercury	0.32	mg/kg	0.05	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Nickel	11	mg/kg	0.5	284719	210649.9	1770	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Arsenic	6.7	mg/kg	0.5	284719	210649.9	635	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Cadmium	0.11	mg/kg	0.1	284719	210649.9	410	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Chromium	2.4	mg/kg	0.5	284719	210649.9	208000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Copper	40	mg/kg	0.5	284719	210649.9	106000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Vanadium	4.2	mg/kg	0.5	284719	210649.9	7490	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Zinc	30	mg/kg	0.5	284719	210649.9	1100000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Selenium	1.8	mg/kg	0.25	284719	210649.9	13000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Acenaphthene	0.49	mg/kg	0.1	284719	210649.9	83600	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Phenanthrene	1.2	mg/kg	0.1	284719	210649.9	535000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Fluorene	0.39	mg/kg	0.1	284719	210649.9	66500	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Naphthalene	2.8	mg/kg	0.1	284719	210649.9	90.1	NO	NO	0.03	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Cyanide (Free)	< 0.5	mg/kg	0.5	284719	210649.9	373	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Total Phenols	1.4	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Total Of 16 PAH's	6.7	mg/kg	2	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284719	210649.9	27900	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Aromatic TPH >C8-C10	6.8	mg/kg	1	284719	210649.9	2210	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Aromatic TPH >C10-C12	12	mg/kg	1	284719	210649.9	12300	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Aromatic TPH >C12-C16	11	mg/kg	1	284719	210649.9	41300	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Aromatic TPH >C16-C21	2.1	mg/kg	1	284719	210649.9	28400	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Aromatic TPH >C21-C35	12	mg/kg	1	284719	210649.9	28400	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284719	210649.9	4490	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284719	210649.9	10400	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284719	210649.9	1370	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284719	210649.9	7900	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284719	210649.9	34000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284719	210649.9	3620000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Aliphatic TPH >C21-C35	26	mg/kg	1	284719	210649.9	3620000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284719	210649.9	12.5	NO	NO	0.08	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Total Petroleum Hydrocarbor	69	mg/kg	10	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Total Aliphatic Hydrocarbons	26	mg/kg	5	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Total Aromatic Hydrocarbons	43	mg/kg	5	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Ethylbenzene	< 0.001	mg/kg	0.001	284719	210649.9	7660	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Toluene	< 0.001	mg/kg	0.001	284719	210649.9	27900	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Benzene	< 0.001	mg/kg	0.001	284719	210649.9	12.5	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	o-Xylene	< 0.001	mg/kg	0.001	284719	210649.9	3030	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	m & p-Xylene	< 0.001	mg/kg	0.001	284719	210649.9	2720	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	pH	8.2	-	4	284719	210649.9		NO	NO		POINT (284718.99 210649.88)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH105	236.49	4.7	Organic Matter	86	%	0.4	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Anthracene	0.18	mg/kg	0.1	284719	210649.9	535000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Pyrene	0.36	mg/kg	0.1	284719	210649.9	54100	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284719	210649.9	49.1	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Benzo[b]fluoranthene	0.34	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Fluoranthene	0.48	mg/kg	0.1	284719	210649.9	72200	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Acenaphthylene	0.24	mg/kg	0.1	284719	210649.9	83600	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Chrysene	0.34	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284719	210649.9	76.3	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Benzo[a]anthracene	0.15	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Cyanide (Total)	< 0.5	mg/kg	0.5	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Lead	43	mg/kg	0.5	284719	210649.9	2310	NO	NO	0.02	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Mercury	0.39	mg/kg	0.05	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Nickel	13	mg/kg	0.5	284719	210649.9	1770	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Arsenic	7.4	mg/kg	0.5	284719	210649.9	635	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Cadmium	0.15	mg/kg	0.1	284719	210649.9	410	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Chromium	2.2	mg/kg	0.5	284719	210649.9	208000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Copper	46	mg/kg	0.5	284719	210649.9	106000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Vanadium	5.1	mg/kg	0.5	284719	210649.9	7490	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Zinc	37	mg/kg	0.5	284719	210649.9	1100000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Selenium	2.1	mg/kg	0.25	284719	210649.9	13000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Acenaphthene	0.55	mg/kg	0.1	284719	210649.9	83600	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Phenanthrene	1.2	mg/kg	0.1	284719	210649.9	535000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Fluorene	0.41	mg/kg	0.1	284719	210649.9	66500	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Naphthalene	3.9	mg/kg	0.1	284719	210649.9	90.1	NO	NO	0.04	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Cyanide (Free)	< 0.5	mg/kg	0.5	284719	210649.9	373	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Total Phenols	0.48	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Total Of 16 PAH's	8.2	mg/kg	2	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284719	210649.9	27900	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284719	210649.9	2210	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284719	210649.9	12300	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284719	210649.9	41300	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284719	210649.9	28400	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284719	210649.9	28400	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284719	210649.9	4490	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284719	210649.9	10400	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284719	210649.9	1370	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284719	210649.9	7900	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284719	210649.9	34000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284719	210649.9	3620000	NO	NO	0	POINT (284718.99 210649.88)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH105	236.49	4.7	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284719	210649.9	3620000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284719	210649.9	12.5	NO	NO	0.08	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Ethylbenzene	< 0.001	mg/kg	0.001	284719	210649.9	7660	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Toluene	< 0.001	mg/kg	0.001	284719	210649.9	27900	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Benzene	< 0.001	mg/kg	0.001	284719	210649.9	12.5	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	o-Xylene	< 0.001	mg/kg	0.001	284719	210649.9	3030	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	m & p-Xylene	< 0.001	mg/kg	0.001	284719	210649.9	2720	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	pH	8.3	-	4	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Organic Matter	100	%	0.4	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Anthracene	< 0.1	mg/kg	0.1	284719	210649.9	535000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Pyrene	0.15	mg/kg	0.1	284719	210649.9	54100	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284719	210649.9	49.1	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Fluoranthene	0.13	mg/kg	0.1	284719	210649.9	72200	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Acenaphthylene	< 0.1	mg/kg	0.1	284719	210649.9	83600	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Chrysene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284719	210649.9	76.3	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Cyanide (Total)	< 0.5	mg/kg	0.5	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Lead	14	mg/kg	0.5	284719	210649.9	2310	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Mercury	0.36	mg/kg	0.05	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Nickel	4.3	mg/kg	0.5	284719	210649.9	1770	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Arsenic	1.7	mg/kg	0.5	284719	210649.9	635	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Cadmium	< 0.1	mg/kg	0.1	284719	210649.9	410	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Chromium	1	mg/kg	0.5	284719	210649.9	208000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Copper	28	mg/kg	0.5	284719	210649.9	106000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Vanadium	2.3	mg/kg	0.5	284719	210649.9	7490	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Zinc	19	mg/kg	0.5	284719	210649.9	1100000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Selenium	1.1	mg/kg	0.25	284719	210649.9	13000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Acenaphthene	0.29	mg/kg	0.1	284719	210649.9	83600	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Phenanthrene	0.45	mg/kg	0.1	284719	210649.9	535000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Fluorene	0.16	mg/kg	0.1	284719	210649.9	66500	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Naphthalene	0.55	mg/kg	0.1	284719	210649.9	90.1	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Cyanide (Free)	< 0.5	mg/kg	0.5	284719	210649.9	373	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Total Phenols	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Total Of 16 PAH's	< 2.0	mg/kg	2	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284719	210649.9	27900	NO	NO	0	POINT (284718.99 210649.88)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH105	236.49	6.7	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284719	210649.9	2210	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284719	210649.9	12300	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284719	210649.9	41300	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284719	210649.9	28400	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284719	210649.9	28400	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284719	210649.9	4490	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284719	210649.9	10400	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284719	210649.9	1370	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284719	210649.9	7900	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284719	210649.9	34000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284719	210649.9	3620000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284719	210649.9	3620000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284719	210649.9	12.5	NO	NO	0.08	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Ethylbenzene	< 0.001	mg/kg	0.001	284719	210649.9	7660	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Toluene	0.0024	mg/kg	0.001	284719	210649.9	27900	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Benzene	0.0026	mg/kg	0.001	284719	210649.9	12.5	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	o-Xylene	< 0.001	mg/kg	0.001	284719	210649.9	3030	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	m & p-Xylene	< 0.001	mg/kg	0.001	284719	210649.9	2720	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	pH	5.9	-	4	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Organic Matter	10	%	0.4	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Anthracene	< 0.1	mg/kg	0.1	284719	210649.9	535000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Pyrene	< 0.1	mg/kg	0.1	284719	210649.9	54100	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284719	210649.9	49.1	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Fluoranthene	< 0.1	mg/kg	0.1	284719	210649.9	72200	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Acenaphthylene	< 0.1	mg/kg	0.1	284719	210649.9	83600	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Chrysene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284719	210649.9	76.3	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Cyanide (Total)	< 0.5	mg/kg	0.5	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Lead	18	mg/kg	0.5	284719	210649.9	2310	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Mercury	< 0.05	mg/kg	0.05	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Nickel	23	mg/kg	0.5	284719	210649.9	1770	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Arsenic	7.6	mg/kg	0.5	284719	210649.9	635	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Boron (Hot Water Soluble)	0.43	mg/kg	0.4	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Cadmium	< 0.1	mg/kg	0.1	284719	210649.9	410	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Chromium	14	mg/kg	0.5	284719	210649.9	208000	NO	NO	0	POINT (284718.99 210649.88)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH105	236.49	9.6	Copper	22	mg/kg	0.5	284719	210649.9	106000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Vanadium	12	mg/kg	0.5	284719	210649.9	7490	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Zinc	62	mg/kg	0.5	284719	210649.9	1100000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Selenium	0.61	mg/kg	0.25	284719	210649.9	13000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Acenaphthene	< 0.1	mg/kg	0.1	284719	210649.9	83600	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Phenanthrene	< 0.1	mg/kg	0.1	284719	210649.9	535000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Fluorene	< 0.1	mg/kg	0.1	284719	210649.9	66500	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Naphthalene	2.5	mg/kg	0.1	284719	210649.9	90.1	NO	NO	0.03	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Cyanide (Free)	< 0.5	mg/kg	0.5	284719	210649.9	373	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Total Phenols	< 0.1	mg/kg	0.1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Total Of 16 PAH's	2.5	mg/kg	2	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284719	210649.9	27900	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284719	210649.9	2210	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284719	210649.9	12300	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284719	210649.9	41300	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284719	210649.9	28400	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284719	210649.9	28400	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284719	210649.9	4490	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284719	210649.9	10400	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284719	210649.9	1370	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284719	210649.9	7900	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284719	210649.9	34000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284719	210649.9	3620000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284719	210649.9	3620000	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284719	210649.9	12.5	NO	NO	0.08	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Ethylbenzene	< 0.001	mg/kg	0.001	284719	210649.9	7660	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Toluene	< 0.001	mg/kg	0.001	284719	210649.9	27900	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Benzene	< 0.001	mg/kg	0.001	284719	210649.9	12.5	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	o-Xylene	< 0.001	mg/kg	0.001	284719	210649.9	3030	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	m & p-Xylene	< 0.001	mg/kg	0.001	284719	210649.9	2720	NO	NO	0	POINT (284718.99 210649.88)
S1-BH106	241.27	0.2	pH	8	-	4	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	pH	8	-	4	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Loss On Ignition	25	%	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Organic Matter	86	%	0.4	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Total Organic Carbon	63	%	0.2	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Dry Mass Of Test Portion	0.175	kg	0	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Anthracene	0.37	mg/kg	0.1	284928.6	210637.4	535000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Pyrene	1.4	mg/kg	0.1	284928.6	210637.4	54100	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Total PCBs (7 Congeners)	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284928.6	210637.4	49.1	NO	NO	0.01	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH106	241.27	0.2	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Benzo[b]fluoranthene	0.97	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Fluoranthene	1.8	mg/kg	0.1	284928.6	210637.4	72200	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Acenaphthylene	< 0.1	mg/kg	0.1	284928.6	210637.4	83600	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Chrysene	0.89	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284928.6	210637.4	76.3	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Benzo[a]anthracene	0.51	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Cyanide (Total)	< 0.5	mg/kg	0.5	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Lead	33	mg/kg	0.5	284928.6	210637.4	2310	NO	NO	0.01	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Mercury	0.1	mg/kg	0.05	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Nickel	21	mg/kg	0.5	284928.6	210637.4	1770	NO	NO	0.01	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Arsenic	12	mg/kg	0.5	284928.6	210637.4	635	NO	NO	0.02	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Cadmium	0.36	mg/kg	0.1	284928.6	210637.4	410	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Chromium	7.1	mg/kg	0.5	284928.6	210637.4	208000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Copper	55	mg/kg	0.5	284928.6	210637.4	106000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Vanadium	7.2	mg/kg	0.5	284928.6	210637.4	7490	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Zinc	76	mg/kg	0.5	284928.6	210637.4	1100000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Selenium	1.7	mg/kg	0.25	284928.6	210637.4	13000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Acenaphthene	< 0.1	mg/kg	0.1	284928.6	210637.4	83600	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Phenanthrene	2.3	mg/kg	0.1	284928.6	210637.4	535000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Fluorene	0.35	mg/kg	0.1	284928.6	210637.4	66500	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Naphthalene	1.8	mg/kg	0.1	284928.6	210637.4	90.1	NO	NO	0.02	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Cyanide (Free)	< 0.5	mg/kg	0.5	284928.6	210637.4	373	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Total Phenols	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Total Of 16 PAH's	10	mg/kg	2	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Total (Of 17) PAH's	14	mg/kg	2	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Total BTEX	< 0.01	mg/kg	0.01	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284928.6	210637.4	27900	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284928.6	210637.4	2210	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284928.6	210637.4	12300	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284928.6	210637.4	41300	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284928.6	210637.4	28400	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284928.6	210637.4	28400	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	TPH Total WAC	54	mg/kg	10	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284928.6	210637.4	4490	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284928.6	210637.4	10400	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284928.6	210637.4	1370	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284928.6	210637.4	7900	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284928.6	210637.4	34000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284928.6	210637.4	3620000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284928.6	210637.4	3620000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH106	241.27	0.2	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284928.6	210637.4	12.5	NO	NO	0.08	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Acid Neutralisation Capacity	0.028	mol/kg	0	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Ethylbenzene	< 0.001	mg/kg	0.001	284928.6	210637.4	7660	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Toluene	< 0.001	mg/kg	0.001	284928.6	210637.4	27900	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	Benzene	< 0.001	mg/kg	0.001	284928.6	210637.4	12.5	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	o-Xylene	< 0.001	mg/kg	0.001	284928.6	210637.4	3030	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.2	m & p-Xylene	< 0.001	mg/kg	0.001	284928.6	210637.4	2720	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	pH	7.3	-	4	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Organic Matter	12	%	0.4	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Anthracene	< 0.1	mg/kg	0.1	284928.6	210637.4	535000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Pyrene	0.18	mg/kg	0.1	284928.6	210637.4	54100	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284928.6	210637.4	49.1	NO	NO	0.01	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Fluoranthene	0.28	mg/kg	0.1	284928.6	210637.4	72200	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Acenaphthylene	< 0.1	mg/kg	0.1	284928.6	210637.4	83600	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Chrysene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284928.6	210637.4	76.3	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Cyanide (Total)	< 0.5	mg/kg	0.5	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Lead	3300	mg/kg	0.5	284928.6	210637.4	2310	NO	YES	1.43	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Mercury	1.2	mg/kg	0.05	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Nickel	21	mg/kg	0.5	284928.6	210637.4	1770	NO	NO	0.01	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Arsenic	99	mg/kg	0.5	284928.6	210637.4	635	NO	NO	0.16	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Boron (Hot Water Soluble)	4.2	mg/kg	0.4	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Cadmium	14	mg/kg	0.1	284928.6	210637.4	410	NO	NO	0.03	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Chromium	440	mg/kg	0.5	284928.6	210637.4	208000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Copper	130	mg/kg	0.5	284928.6	210637.4	106000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Vanadium	44	mg/kg	0.5	284928.6	210637.4	7490	NO	NO	0.01	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Zinc	16000	mg/kg	0.5	284928.6	210637.4	1100000	NO	NO	0.01	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Selenium	1.6	mg/kg	0.25	284928.6	210637.4	13000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Acenaphthene	< 0.1	mg/kg	0.1	284928.6	210637.4	83600	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Phenanthrene	< 0.1	mg/kg	0.1	284928.6	210637.4	535000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Fluorene	< 0.1	mg/kg	0.1	284928.6	210637.4	66500	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Naphthalene	0.24	mg/kg	0.1	284928.6	210637.4	90.1	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Cyanide (Free)	< 0.5	mg/kg	0.5	284928.6	210637.4	373	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Total Phenols	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Total Of 16 PAH's	< 2.0	mg/kg	2	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284928.6	210637.4	27900	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284928.6	210637.4	2210	NO	NO	0	POINT (284928.61 210637.41)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH106	241.27	2.5	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284928.6	210637.4	12300	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284928.6	210637.4	41300	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284928.6	210637.4	28400	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284928.6	210637.4	28400	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284928.6	210637.4	4490	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284928.6	210637.4	10400	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284928.6	210637.4	1370	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284928.6	210637.4	7900	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284928.6	210637.4	34000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284928.6	210637.4	3620000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284928.6	210637.4	3620000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284928.6	210637.4	12.5	NO	NO	0.08	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Ethylbenzene	< 0.001	mg/kg	0.001	284928.6	210637.4	7660	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Toluene	< 0.001	mg/kg	0.001	284928.6	210637.4	27900	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Benzene	< 0.001	mg/kg	0.001	284928.6	210637.4	12.5	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	o-Xylene	< 0.001	mg/kg	0.001	284928.6	210637.4	3030	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	m & p-Xylene	< 0.001	mg/kg	0.001	284928.6	210637.4	2720	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	pH	8.1	-	4	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	pH	8.1	-	4	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Loss On Ignition	13	%	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Organic Matter	76	%	0.4	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Total Organic Carbon	30	%	0.2	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Dry Mass Of Test Portion	0.175	kg	0	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Anthracene	0.26	mg/kg	0.1	284928.6	210637.4	535000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Pyrene	0.38	mg/kg	0.1	284928.6	210637.4	54100	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Total PCBs (7 Congeners)	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284928.6	210637.4	49.1	NO	NO	0.01	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Benzo[b]fluoranthene	0.46	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Fluoranthene	0.59	mg/kg	0.1	284928.6	210637.4	72200	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Acenaphthylene	< 0.1	mg/kg	0.1	284928.6	210637.4	83600	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Chrysene	0.23	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284928.6	210637.4	76.3	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Benzo[a]anthracene	0.13	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Cyanide (Total)	< 0.5	mg/kg	0.5	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Lead	60	mg/kg	0.5	284928.6	210637.4	2310	NO	NO	0.03	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Mercury	0.11	mg/kg	0.05	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Nickel	18	mg/kg	0.5	284928.6	210637.4	1770	NO	NO	0.01	POINT (284928.61 210637.41)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH106	241.27	5.5	Arsenic	8.3	mg/kg	0.5	284928.6	210637.4	635	NO	NO	0.01	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Boron (Hot Water Soluble)	0.48	mg/kg	0.4	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Cadmium	0.25	mg/kg	0.1	284928.6	210637.4	410	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Chromium	5.9	mg/kg	0.5	284928.6	210637.4	208000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Copper	47	mg/kg	0.5	284928.6	210637.4	106000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Vanadium	5.4	mg/kg	0.5	284928.6	210637.4	7490	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Zinc	140	mg/kg	0.5	284928.6	210637.4	1100000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Selenium	2.2	mg/kg	0.25	284928.6	210637.4	13000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Acenaphthene	0.4	mg/kg	0.1	284928.6	210637.4	83600	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Phenanthrene	1.1	mg/kg	0.1	284928.6	210637.4	535000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Fluorene	0.33	mg/kg	0.1	284928.6	210637.4	66500	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Naphthalene	3.2	mg/kg	0.1	284928.6	210637.4	90.1	NO	NO	0.04	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Cyanide (Free)	< 0.5	mg/kg	0.5	284928.6	210637.4	373	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Total Phenols	0.2	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Total Of 16 PAH's	7.1	mg/kg	2	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Total (Of 17) PAH's	2.1	mg/kg	2	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Total BTEX	< 0.01	mg/kg	0.01	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284928.6	210637.4	27900	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284928.6	210637.4	2210	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284928.6	210637.4	12300	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284928.6	210637.4	41300	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284928.6	210637.4	28400	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284928.6	210637.4	28400	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	TPH Total WAC	< 10.0	mg/kg	10	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284928.6	210637.4	4490	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284928.6	210637.4	10400	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284928.6	210637.4	1370	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284928.6	210637.4	7900	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284928.6	210637.4	34000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284928.6	210637.4	3620000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284928.6	210637.4	3620000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284928.6	210637.4	12.5	NO	NO	0.08	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Acid Neutralisation Capacity	0.023	mol/kg	0	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Ethylbenzene	< 0.001	mg/kg	0.001	284928.6	210637.4	7660	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Toluene	< 0.001	mg/kg	0.001	284928.6	210637.4	27900	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Benzene	< 0.001	mg/kg	0.001	284928.6	210637.4	12.5	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	o-Xylene	< 0.001	mg/kg	0.001	284928.6	210637.4	3030	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	m & p-Xylene	< 0.001	mg/kg	0.001	284928.6	210637.4	2720	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	pH	8	-	4	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	pH	7.9	-	4	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Loss On Ignition	24	%	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH106	241.27	8.5	Organic Matter	93	%	0.4	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Total Organic Carbon	42	%	0.2	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Dry Mass Of Test Portion	0.175	kg	0	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Anthracene	0.3	mg/kg	0.1	284928.6	210637.4	535000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Pyrene	0.35	mg/kg	0.1	284928.6	210637.4	54100	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Total PCBs (7 Congeners)	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284928.6	210637.4	49.1	NO	NO	0.01	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Benzo[b]fluoranthene	0.37	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Fluoranthene	0.57	mg/kg	0.1	284928.6	210637.4	72200	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Acenaphthylene	< 0.1	mg/kg	0.1	284928.6	210637.4	83600	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Chrysene	0.19	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284928.6	210637.4	76.3	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Cyanide (Total)	< 0.5	mg/kg	0.5	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Lead	100	mg/kg	0.5	284928.6	210637.4	2310	NO	NO	0.04	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Mercury	0.15	mg/kg	0.05	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Nickel	24	mg/kg	0.5	284928.6	210637.4	1770	NO	NO	0.01	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Arsenic	9.9	mg/kg	0.5	284928.6	210637.4	635	NO	NO	0.02	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Boron (Hot Water Soluble)	0.56	mg/kg	0.4	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Cadmium	1.5	mg/kg	0.1	284928.6	210637.4	410	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Chromium	12	mg/kg	0.5	284928.6	210637.4	208000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Copper	50	mg/kg	0.5	284928.6	210637.4	106000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Vanadium	6.9	mg/kg	0.5	284928.6	210637.4	7490	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Zinc	350	mg/kg	0.5	284928.6	210637.4	1100000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Selenium	2.2	mg/kg	0.25	284928.6	210637.4	13000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Acenaphthene	0.84	mg/kg	0.1	284928.6	210637.4	83600	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Phenanthrene	1.5	mg/kg	0.1	284928.6	210637.4	535000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Fluorene	0.39	mg/kg	0.1	284928.6	210637.4	66500	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Naphthalene	6	mg/kg	0.1	284928.6	210637.4	90.1	NO	NO	0.07	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Cyanide (Free)	< 0.5	mg/kg	0.5	284928.6	210637.4	373	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Total Phenols	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Total Of 16 PAH's	11	mg/kg	2	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Total (Of 17) PAH's	10	mg/kg	2	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Total BTEX	< 0.01	mg/kg	0.01	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284928.6	210637.4	27900	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284928.6	210637.4	2210	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284928.6	210637.4	12300	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284928.6	210637.4	41300	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284928.6	210637.4	28400	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284928.6	210637.4	28400	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	TPH Total WAC	99	mg/kg	10	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH106	241.27	8.5	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284928.6	210637.4	4490	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284928.6	210637.4	10400	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284928.6	210637.4	1370	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284928.6	210637.4	7900	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284928.6	210637.4	34000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284928.6	210637.4	3620000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284928.6	210637.4	3620000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284928.6	210637.4	12.5	NO	NO	0.08	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Acid Neutralisation Capacity	0.01	mol/kg	0	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Ethylbenzene	< 0.001	mg/kg	0.001	284928.6	210637.4	7660	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Toluene	< 0.001	mg/kg	0.001	284928.6	210637.4	27900	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Benzene	< 0.001	mg/kg	0.001	284928.6	210637.4	12.5	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	o-Xylene	< 0.001	mg/kg	0.001	284928.6	210637.4	3030	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	m & p-Xylene	< 0.001	mg/kg	0.001	284928.6	210637.4	2720	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	pH	8.5	-	4	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Organic Matter	48	%	0.4	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Anthracene	0.42	mg/kg	0.1	284928.6	210637.4	535000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Pyrene	1.1	mg/kg	0.1	284928.6	210637.4	54100	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284928.6	210637.4	49.1	NO	NO	0.01	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Benzo[b]fluoranthene	0.82	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Fluoranthene	1.6	mg/kg	0.1	284928.6	210637.4	72200	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Acenaphthylene	< 0.1	mg/kg	0.1	284928.6	210637.4	83600	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Chrysene	0.72	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284928.6	210637.4	76.3	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Benzo[a]anthracene	0.38	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Cyanide (Total)	< 0.5	mg/kg	0.5	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Lead	23	mg/kg	0.5	284928.6	210637.4	2310	NO	NO	0.01	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Mercury	0.06	mg/kg	0.05	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Nickel	18	mg/kg	0.5	284928.6	210637.4	1770	NO	NO	0.01	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Arsenic	9.1	mg/kg	0.5	284928.6	210637.4	635	NO	NO	0.01	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Boron (Hot Water Soluble)	0.68	mg/kg	0.4	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Cadmium	0.2	mg/kg	0.1	284928.6	210637.4	410	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Chromium	6.5	mg/kg	0.5	284928.6	210637.4	208000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Copper	36	mg/kg	0.5	284928.6	210637.4	106000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Vanadium	6.2	mg/kg	0.5	284928.6	210637.4	7490	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Zinc	54	mg/kg	0.5	284928.6	210637.4	1100000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Selenium	1.1	mg/kg	0.25	284928.6	210637.4	13000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Acenaphthene	< 0.1	mg/kg	0.1	284928.6	210637.4	83600	NO	NO	0	POINT (284928.61 210637.41)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH106	241.27	0.9	Phenanthrene	2	mg/kg	0.1	284928.6	210637.4	535000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Fluorene	0.27	mg/kg	0.1	284928.6	210637.4	66500	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Naphthalene	2	mg/kg	0.1	284928.6	210637.4	90.1	NO	NO	0.02	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Cyanide (Free)	< 0.5	mg/kg	0.5	284928.6	210637.4	373	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Total Phenols	< 0.1	mg/kg	0.1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Total Of 16 PAH's	9.3	mg/kg	2	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284928.6	210637.4	27900	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284928.6	210637.4	2210	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284928.6	210637.4	12300	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284928.6	210637.4	41300	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284928.6	210637.4	28400	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284928.6	210637.4	28400	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284928.6	210637.4	4490	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284928.6	210637.4	10400	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284928.6	210637.4	1370	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284928.6	210637.4	7900	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284928.6	210637.4	34000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284928.6	210637.4	3620000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284928.6	210637.4	3620000	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284928.6	210637.4	12.5	NO	NO	0.08	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Ethylbenzene	< 0.001	mg/kg	0.001	284928.6	210637.4	7660	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Toluene	< 0.001	mg/kg	0.001	284928.6	210637.4	27900	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Benzene	< 0.001	mg/kg	0.001	284928.6	210637.4	12.5	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	o-Xylene	< 0.001	mg/kg	0.001	284928.6	210637.4	3030	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	m & p-Xylene	< 0.001	mg/kg	0.001	284928.6	210637.4	2720	NO	NO	0	POINT (284928.61 210637.41)
S1-BH107	229.89	1	pH	8.4	-	4	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	Organic Matter	9.7	%	0.4	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	Anthracene	< 0.1	mg/kg	0.1	284280.5	210636.4	535000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Pyrene	0.18	mg/kg	0.1	284280.5	210636.4	54100	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284280.5	210636.4	49.1	NO	NO	0.01	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	Fluoranthene	0.25	mg/kg	0.1	284280.5	210636.4	72200	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	Acenaphthylene	< 0.1	mg/kg	0.1	284280.5	210636.4	83600	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Chrysene	< 0.1	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284280.5	210636.4	76.3	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	Cyanide (Total)	< 0.5	mg/kg	0.5	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH107	229.89	1	Lead	19	mg/kg	0.5	284280.5	210636.4	2310	NO	NO	0.01	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Mercury	0.05	mg/kg	0.05	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	Nickel	25	mg/kg	0.5	284280.5	210636.4	1770	NO	NO	0.01	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Arsenic	11	mg/kg	0.5	284280.5	210636.4	635	NO	NO	0.02	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	Cadmium	0.19	mg/kg	0.1	284280.5	210636.4	410	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Chromium	8.6	mg/kg	0.5	284280.5	210636.4	208000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Copper	35	mg/kg	0.5	284280.5	210636.4	106000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Vanadium	12	mg/kg	0.5	284280.5	210636.4	7490	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Zinc	76	mg/kg	0.5	284280.5	210636.4	1100000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Selenium	0.92	mg/kg	0.25	284280.5	210636.4	13000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Acenaphthene	< 0.1	mg/kg	0.1	284280.5	210636.4	83600	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Phenanthrene	0.28	mg/kg	0.1	284280.5	210636.4	535000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Fluorene	< 0.1	mg/kg	0.1	284280.5	210636.4	66500	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Naphthalene	< 0.1	mg/kg	0.1	284280.5	210636.4	90.1	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Cyanide (Free)	< 0.5	mg/kg	0.5	284280.5	210636.4	373	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Total Phenols	< 0.1	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	Total Of 16 PAH's	< 2.0	mg/kg	2	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284280.5	210636.4	27900	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284280.5	210636.4	2210	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284280.5	210636.4	12300	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284280.5	210636.4	41300	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284280.5	210636.4	28400	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284280.5	210636.4	28400	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284280.5	210636.4	4490	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284280.5	210636.4	10400	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284280.5	210636.4	1370	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284280.5	210636.4	7900	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284280.5	210636.4	34000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284280.5	210636.4	3620000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284280.5	210636.4	3620000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284280.5	210636.4	12.5	NO	NO	0.08	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	Ethylbenzene	< 0.001	mg/kg	0.001	284280.5	210636.4	7660	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Toluene	< 0.001	mg/kg	0.001	284280.5	210636.4	27900	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	Benzene	< 0.001	mg/kg	0.001	284280.5	210636.4	12.5	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	o-Xylene	< 0.001	mg/kg	0.001	284280.5	210636.4	3030	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	m & p-Xylene	< 0.001	mg/kg	0.001	284280.5	210636.4	2720	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	pH	8.2	-	4	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	5	Organic Matter	7.9	%	0.4	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	5	Anthracene	< 0.1	mg/kg	0.1	284280.5	210636.4	535000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Pyrene	< 0.1	mg/kg	0.1	284280.5	210636.4	54100	NO	NO	0	POINT (284280.5 210636.35)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH107	229.89	5	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284280.5	210636.4	49.1	NO	NO	0.01	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	5	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	5	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	5	Fluoranthene	< 0.1	mg/kg	0.1	284280.5	210636.4	72200	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	5	Acenaphthylene	< 0.1	mg/kg	0.1	284280.5	210636.4	83600	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Chrysene	< 0.1	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	5	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284280.5	210636.4	76.3	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	5	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	5	Cyanide (Total)	< 0.5	mg/kg	0.5	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	5	Lead	23	mg/kg	0.5	284280.5	210636.4	2310	NO	NO	0.01	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Mercury	< 0.05	mg/kg	0.05	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	5	Nickel	37	mg/kg	0.5	284280.5	210636.4	1770	NO	NO	0.02	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Arsenic	9.9	mg/kg	0.5	284280.5	210636.4	635	NO	NO	0.02	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Boron (Hot Water Soluble)	1	mg/kg	0.4	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	5	Cadmium	0.15	mg/kg	0.1	284280.5	210636.4	410	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Chromium	33	mg/kg	0.5	284280.5	210636.4	208000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Copper	28	mg/kg	0.5	284280.5	210636.4	106000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Vanadium	41	mg/kg	0.5	284280.5	210636.4	7490	NO	NO	0.01	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Zinc	77	mg/kg	0.5	284280.5	210636.4	1100000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Selenium	1.1	mg/kg	0.25	284280.5	210636.4	13000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Acenaphthene	< 0.1	mg/kg	0.1	284280.5	210636.4	83600	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Phenanthrene	< 0.1	mg/kg	0.1	284280.5	210636.4	535000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Fluorene	< 0.1	mg/kg	0.1	284280.5	210636.4	66500	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Naphthalene	< 0.1	mg/kg	0.1	284280.5	210636.4	90.1	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Cyanide (Free)	< 0.5	mg/kg	0.5	284280.5	210636.4	373	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Total Phenols	< 0.1	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	5	Total Of 16 PAH's	< 2.0	mg/kg	2	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	5	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284280.5	210636.4	27900	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284280.5	210636.4	2210	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284280.5	210636.4	12300	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284280.5	210636.4	41300	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284280.5	210636.4	28400	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284280.5	210636.4	28400	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	5	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284280.5	210636.4	4490	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284280.5	210636.4	10400	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284280.5	210636.4	1370	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284280.5	210636.4	7900	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284280.5	210636.4	34000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284280.5	210636.4	3620000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284280.5	210636.4	3620000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	5	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284280.5	210636.4	12.5	NO	NO	0.08	POINT (284280.5 210636.35)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH107	229.89	5	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	5	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	5	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	5	Ethylbenzene	< 0.001	mg/kg	0.001	284280.5	210636.4	7660	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Toluene	< 0.001	mg/kg	0.001	284280.5	210636.4	27900	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	Benzene	< 0.001	mg/kg	0.001	284280.5	210636.4	12.5	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	o-Xylene	< 0.001	mg/kg	0.001	284280.5	210636.4	3030	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	5	m & p-Xylene	< 0.001	mg/kg	0.001	284280.5	210636.4	2720	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	pH	8.2	-	4	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	pH	9.7	-	4	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Loss On Ignition	16	%	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Organic Matter	75	%	0.4	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Total Organic Carbon	31	%	0.2	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Dry Mass Of Test Portion	0.175	kg	0	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Anthracene	1.8	mg/kg	0.1	284280.5	210636.4	535000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Pyrene	4.1	mg/kg	0.1	284280.5	210636.4	54100	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Total PCBs (7 Congeners)	< 0.1	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284280.5	210636.4	49.1	NO	NO	0.01	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Benzo[g,h,i]perylene	4.7	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Indeno(1,2,3-c,d)Pyrene	4.2	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Benzo[b]fluoranthene	5	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Fluoranthene	4.1	mg/kg	0.1	284280.5	210636.4	72200	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Benzo[k]fluoranthene	4.7	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Acenaphthylene	0.14	mg/kg	0.1	284280.5	210636.4	83600	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Chrysene	4.5	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Benzo[a]pyrene	4.5	mg/kg	0.1	284280.5	210636.4	76.3	NO	NO	0.06	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Dibenz(a,h)Anthracene	4.2	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Benzo[a]anthracene	4.4	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Cyanide (Total)	< 0.5	mg/kg	0.5	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Lead	35	mg/kg	0.5	284280.5	210636.4	2310	NO	NO	0.02	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Mercury	0.15	mg/kg	0.05	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Nickel	8.7	mg/kg	0.5	284280.5	210636.4	1770	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Arsenic	9	mg/kg	0.5	284280.5	210636.4	635	NO	NO	0.01	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Cadmium	0.2	mg/kg	0.1	284280.5	210636.4	410	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Chromium	4.1	mg/kg	0.5	284280.5	210636.4	208000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Copper	36	mg/kg	0.5	284280.5	210636.4	106000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Vanadium	7.1	mg/kg	0.5	284280.5	210636.4	7490	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Zinc	32	mg/kg	0.5	284280.5	210636.4	1100000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Selenium	2.3	mg/kg	0.25	284280.5	210636.4	13000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Acenaphthene	0.14	mg/kg	0.1	284280.5	210636.4	83600	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Phenanthrene	2	mg/kg	0.1	284280.5	210636.4	535000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Fluorene	0.55	mg/kg	0.1	284280.5	210636.4	66500	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Naphthalene	0.2	mg/kg	0.1	284280.5	210636.4	90.1	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Cyanide (Free)	< 0.5	mg/kg	0.5	284280.5	210636.4	373	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Total Phenols	< 0.1	mg/kg	0.1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH107	229.89	0.3	Total Of 16 PAH's	49	mg/kg	2	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Total (Of 17) PAH's	< 2.0	mg/kg	2	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Total BTEX	< 0.01	mg/kg	0.01	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284280.5	210636.4	27900	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284280.5	210636.4	2210	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284280.5	210636.4	12300	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284280.5	210636.4	41300	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284280.5	210636.4	28400	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284280.5	210636.4	28400	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	TPH Total WAC	< 10.0	mg/kg	10	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284280.5	210636.4	4490	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284280.5	210636.4	10400	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284280.5	210636.4	1370	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284280.5	210636.4	7900	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284280.5	210636.4	34000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284280.5	210636.4	3620000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284280.5	210636.4	3620000	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284280.5	210636.4	12.5	NO	NO	0.08	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Acid Neutralisation Capacity	< 0.002	mol/kg	0	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Ethylbenzene	< 0.001	mg/kg	0.001	284280.5	210636.4	7660	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Toluene	< 0.001	mg/kg	0.001	284280.5	210636.4	27900	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Benzene	< 0.001	mg/kg	0.001	284280.5	210636.4	12.5	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	o-Xylene	< 0.001	mg/kg	0.001	284280.5	210636.4	3030	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	m & p-Xylene	< 0.001	mg/kg	0.001	284280.5	210636.4	2720	NO	NO	0	POINT (284280.5 210636.35)
S1-BH108	231.95	0.3	pH	8.3	-	4	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	pH	8.3	-	4	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Loss On Ignition	31	%	0.1	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Organic Matter	100	%	0.4	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Total Organic Carbon	76	%	0.2	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Dry Mass Of Test Portion	0.175	kg	0	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Anthracene	0.24	mg/kg	0.1	284415.1	210632	535000	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Pyrene	1.3	mg/kg	0.1	284415.1	210632	54100	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Total PCBs (7 Congeners)	< 0.1	mg/kg	0.1	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284415.1	210632	49.1	NO	NO	0.01	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Benzo[g,h,i]perylene	0.59	mg/kg	0.1	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Indeno(1,2,3-c,d)Pyrene	0.38	mg/kg	0.1	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Benzo[b]fluoranthene	1.3	mg/kg	0.1	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Fluoranthene	1.2	mg/kg	0.1	284415.1	210632	72200	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Benzo[k]fluoranthene	0.28	mg/kg	0.1	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Acenaphthylene	< 0.1	mg/kg	0.1	284415.1	210632	83600	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Chrysene	1.9	mg/kg	0.1	284415.1	210632		NO	NO		POINT (284415.11 210631.95)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH108	231.95	0.3	Benzo[a]pyrene	0.66	mg/kg	0.1	284415.1	210632	76.3	NO	NO	0.01	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Dibenz(a,h)Anthracene	0.23	mg/kg	0.1	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Benzo[a]anthracene	0.9	mg/kg	0.1	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Cyanide (Total)	< 0.5	mg/kg	0.5	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Lead	9.1	mg/kg	0.5	284415.1	210632	2310	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Mercury	0.06	mg/kg	0.05	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Nickel	15	mg/kg	0.5	284415.1	210632	1770	NO	NO	0.01	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Arsenic	5.8	mg/kg	0.5	284415.1	210632	635	NO	NO	0.01	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Boron (Hot Water Soluble)	0.71	mg/kg	0.4	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Cadmium	< 0.1	mg/kg	0.1	284415.1	210632	410	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Chromium	7	mg/kg	0.5	284415.1	210632	208000	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Copper	29	mg/kg	0.5	284415.1	210632	106000	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Vanadium	3	mg/kg	0.5	284415.1	210632	7490	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Zinc	28	mg/kg	0.5	284415.1	210632	1100000	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Selenium	0.97	mg/kg	0.25	284415.1	210632	13000	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Acenaphthene	< 0.1	mg/kg	0.1	284415.1	210632	83600	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Phenanthrene	7.4	mg/kg	0.1	284415.1	210632	535000	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Fluorene	1.7	mg/kg	0.1	284415.1	210632	66500	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Naphthalene	1.7	mg/kg	0.1	284415.1	210632	90.1	NO	NO	0.02	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Cyanide (Free)	< 0.5	mg/kg	0.5	284415.1	210632	373	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Total Phenols	< 0.1	mg/kg	0.1	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Total Of 16 PAH's	20	mg/kg	2	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Total (Of 17) PAH's	66	mg/kg	2	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Total BTEX	0.013	mg/kg	0.01	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284415.1	210632	27900	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284415.1	210632	2210	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284415.1	210632	12300	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284415.1	210632	41300	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284415.1	210632	28400	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284415.1	210632	28400	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	TPH Total WAC	90	mg/kg	10	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284415.1	210632	4490	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284415.1	210632	10400	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284415.1	210632	1370	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284415.1	210632	7900	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284415.1	210632	34000	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284415.1	210632	3620000	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284415.1	210632	3620000	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284415.1	210632	12.5	NO	NO	0.08	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Acid Neutralisation Capacity	< 0.002	mol/kg	0	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Ethylbenzene	< 0.001	mg/kg	0.001	284415.1	210632	7660	NO	NO	0	POINT (284415.11 210631.95)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH108	231.95	0.3	Toluene	< 0.001	mg/kg	0.001	284415.1	210632	27900	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Benzene	0.0065	mg/kg	0.001	284415.1	210632	12.5	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	o-Xylene	< 0.001	mg/kg	0.001	284415.1	210632	3030	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	m & p-Xylene	< 0.001	mg/kg	0.001	284415.1	210632	2720	NO	NO	0	POINT (284415.11 210631.95)
S1-BH109	236.37	0.2	pH	8.1	-	4	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Organic Matter	100	%	0.4	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Anthracene	0.24	mg/kg	0.1	284752.2	210629.6	535000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Pyrene	0.55	mg/kg	0.1	284752.2	210629.6	54100	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284752.2	210629.6	49.1	NO	NO	0.01	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Fluoranthene	0.92	mg/kg	0.1	284752.2	210629.6	72200	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Acenaphthylene	< 0.1	mg/kg	0.1	284752.2	210629.6	83600	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Chrysene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284752.2	210629.6	76.3	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Cyanide (Total)	< 0.5	mg/kg	0.5	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Lead	10	mg/kg	0.5	284752.2	210629.6	2310	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Mercury	< 0.05	mg/kg	0.05	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Nickel	9.3	mg/kg	0.5	284752.2	210629.6	1770	NO	NO	0.01	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Arsenic	3.9	mg/kg	0.5	284752.2	210629.6	635	NO	NO	0.01	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Cadmium	< 0.1	mg/kg	0.1	284752.2	210629.6	410	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Chromium	4.8	mg/kg	0.5	284752.2	210629.6	208000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Copper	22	mg/kg	0.5	284752.2	210629.6	106000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Vanadium	3.5	mg/kg	0.5	284752.2	210629.6	7490	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Zinc	31	mg/kg	0.5	284752.2	210629.6	1100000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Selenium	0.41	mg/kg	0.25	284752.2	210629.6	13000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Acenaphthene	0.35	mg/kg	0.1	284752.2	210629.6	83600	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Phenanthrene	1.9	mg/kg	0.1	284752.2	210629.6	535000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Fluorene	0.27	mg/kg	0.1	284752.2	210629.6	66500	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Naphthalene	9	mg/kg	0.1	284752.2	210629.6	90.1	NO	NO	0.1	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Cyanide (Free)	< 0.5	mg/kg	0.5	284752.2	210629.6	373	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Total Phenols	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Total Of 16 PAH's	13	mg/kg	2	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284752.2	210629.6	27900	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284752.2	210629.6	2210	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284752.2	210629.6	12300	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284752.2	210629.6	41300	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284752.2	210629.6	28400	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284752.2	210629.6	28400	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284752.2	210629.6	4490	NO	NO	0	POINT (284752.18 210629.62)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH109	236.37	0.2	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284752.2	210629.6	10400	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284752.2	210629.6	1370	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284752.2	210629.6	7900	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284752.2	210629.6	34000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284752.2	210629.6	3620000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284752.2	210629.6	3620000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284752.2	210629.6	12.5	NO	NO	0.08	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Ethylbenzene	< 0.001	mg/kg	0.001	284752.2	210629.6	7660	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Toluene	< 0.001	mg/kg	0.001	284752.2	210629.6	27900	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	Benzene	< 0.001	mg/kg	0.001	284752.2	210629.6	12.5	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	o-Xylene	< 0.001	mg/kg	0.001	284752.2	210629.6	3030	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	m & p-Xylene	< 0.001	mg/kg	0.001	284752.2	210629.6	2720	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	pH	7.7	-	4	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	pH	7.7	-	4	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Loss On Ignition	33	%	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Organic Matter	82	%	0.4	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Total Organic Carbon	48	%	0.2	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Dry Mass Of Test Portion	0.175	kg	0	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Anthracene	0.5	mg/kg	0.1	284752.2	210629.6	535000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Pyrene	0.46	mg/kg	0.1	284752.2	210629.6	54100	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Total PCBs (7 Congeners)	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284752.2	210629.6	49.1	NO	NO	0.01	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Benzo[b]fluoranthene	0.53	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Fluoranthene	0.63	mg/kg	0.1	284752.2	210629.6	72200	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Acenaphthylene	< 0.1	mg/kg	0.1	284752.2	210629.6	83600	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Chrysene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284752.2	210629.6	76.3	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Cyanide (Total)	< 0.5	mg/kg	0.5	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Lead	53	mg/kg	0.5	284752.2	210629.6	2310	NO	NO	0.02	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Mercury	0.12	mg/kg	0.05	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Nickel	11	mg/kg	0.5	284752.2	210629.6	1770	NO	NO	0.01	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Arsenic	6	mg/kg	0.5	284752.2	210629.6	635	NO	NO	0.01	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Cadmium	0.16	mg/kg	0.1	284752.2	210629.6	410	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Chromium	1.7	mg/kg	0.5	284752.2	210629.6	208000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Copper	35	mg/kg	0.5	284752.2	210629.6	106000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Vanadium	3.3	mg/kg	0.5	284752.2	210629.6	7490	NO	NO	0	POINT (284752.18 210629.62)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH109	236.37	3.7	Zinc	32	mg/kg	0.5	284752.2	210629.6	1100000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Selenium	2	mg/kg	0.25	284752.2	210629.6	13000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Acenaphthene	1.5	mg/kg	0.1	284752.2	210629.6	83600	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Phenanthrene	1.9	mg/kg	0.1	284752.2	210629.6	535000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Fluorene	0.91	mg/kg	0.1	284752.2	210629.6	66500	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Naphthalene	17	mg/kg	0.1	284752.2	210629.6	90.1	NO	NO	0.19	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Cyanide (Free)	< 0.5	mg/kg	0.5	284752.2	210629.6	373	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Total Phenols	0.63	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Total (Of 17) PAH's	28	mg/kg	2	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Total Of 16 PAH's	23	mg/kg	2	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Total BTEX	< 0.01	mg/kg	0.01	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284752.2	210629.6	27900	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284752.2	210629.6	2210	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284752.2	210629.6	12300	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284752.2	210629.6	41300	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284752.2	210629.6	28400	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284752.2	210629.6	28400	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	TPH Total WAC	110	mg/kg	10	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284752.2	210629.6	4490	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284752.2	210629.6	10400	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284752.2	210629.6	1370	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284752.2	210629.6	7900	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284752.2	210629.6	34000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284752.2	210629.6	3620000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284752.2	210629.6	3620000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284752.2	210629.6	12.5	NO	NO	0.08	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Acid Neutralisation Capacity	0.008	mol/kg	0	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Ethylbenzene	< 0.001	mg/kg	0.001	284752.2	210629.6	7660	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Toluene	< 0.001	mg/kg	0.001	284752.2	210629.6	27900	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Benzene	< 0.001	mg/kg	0.001	284752.2	210629.6	12.5	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	o-Xylene	< 0.001	mg/kg	0.001	284752.2	210629.6	3030	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	m & p-Xylene	< 0.001	mg/kg	0.001	284752.2	210629.6	2720	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	pH	7	-	4	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	pH	8.1	-	4	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Loss On Ignition	18	%	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Organic Matter	91	%	0.4	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Total Organic Carbon	36	%	0.2	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Dry Mass Of Test Portion	0.175	kg	0	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Anthracene	< 0.1	mg/kg	0.1	284752.2	210629.6	535000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Pyrene	< 0.1	mg/kg	0.1	284752.2	210629.6	54100	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Total PCBs (7 Congeners)	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH109	236.37	6.7	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284752.2	210629.6	49.1	NO	NO	0.01	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Fluoranthene	< 0.1	mg/kg	0.1	284752.2	210629.6	72200	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Acenaphthylene	< 0.1	mg/kg	0.1	284752.2	210629.6	83600	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Chrysene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284752.2	210629.6	76.3	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Cyanide (Total)	< 0.5	mg/kg	0.5	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Lead	44	mg/kg	0.5	284752.2	210629.6	2310	NO	NO	0.02	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Mercury	0.3	mg/kg	0.05	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Nickel	20	mg/kg	0.5	284752.2	210629.6	1770	NO	NO	0.01	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Arsenic	15	mg/kg	0.5	284752.2	210629.6	635	NO	NO	0.02	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Boron (Hot Water Soluble)	0.61	mg/kg	0.4	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Cadmium	0.21	mg/kg	0.1	284752.2	210629.6	410	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Chromium	4.1	mg/kg	0.5	284752.2	210629.6	208000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Copper	48	mg/kg	0.5	284752.2	210629.6	106000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Vanadium	6.2	mg/kg	0.5	284752.2	210629.6	7490	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Zinc	58	mg/kg	0.5	284752.2	210629.6	1100000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Selenium	3.3	mg/kg	0.25	284752.2	210629.6	13000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Acenaphthene	< 0.1	mg/kg	0.1	284752.2	210629.6	83600	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Phenanthrene	< 0.1	mg/kg	0.1	284752.2	210629.6	535000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Fluorene	< 0.1	mg/kg	0.1	284752.2	210629.6	66500	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Naphthalene	0.28	mg/kg	0.1	284752.2	210629.6	90.1	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Cyanide (Free)	< 0.5	mg/kg	0.5	284752.2	210629.6	373	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Total Phenols	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Total Of 16 PAH's	< 2.0	mg/kg	2	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Total (Of 17) PAH's	3.7	mg/kg	2	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Total BTEX	< 0.01	mg/kg	0.01	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284752.2	210629.6	27900	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284752.2	210629.6	2210	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284752.2	210629.6	12300	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284752.2	210629.6	41300	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284752.2	210629.6	28400	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284752.2	210629.6	28400	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	TPH Total WAC	27	mg/kg	10	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284752.2	210629.6	4490	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284752.2	210629.6	10400	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284752.2	210629.6	1370	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284752.2	210629.6	7900	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284752.2	210629.6	34000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284752.2	210629.6	3620000	NO	NO	0	POINT (284752.18 210629.62)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH109	236.37	6.7	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284752.2	210629.6	3620000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284752.2	210629.6	12.5	NO	NO	0.08	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Acid Neutralisation Capacity	< 0.002	mol/kg	0	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Ethylbenzene	< 0.001	mg/kg	0.001	284752.2	210629.6	7660	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Toluene	< 0.001	mg/kg	0.001	284752.2	210629.6	27900	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Benzene	< 0.001	mg/kg	0.001	284752.2	210629.6	12.5	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	o-Xylene	< 0.001	mg/kg	0.001	284752.2	210629.6	3030	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	m & p-Xylene	< 0.001	mg/kg	0.001	284752.2	210629.6	2720	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	pH	6.8	-	4	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Organic Matter	1.4	%	0.4	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Anthracene	0.11	mg/kg	0.1	284752.2	210629.6	535000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Pyrene	0.18	mg/kg	0.1	284752.2	210629.6	54100	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284752.2	210629.6	49.1	NO	NO	0.01	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Fluoranthene	0.24	mg/kg	0.1	284752.2	210629.6	72200	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Acenaphthylene	< 0.1	mg/kg	0.1	284752.2	210629.6	83600	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Chrysene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284752.2	210629.6	76.3	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Cyanide (Total)	< 0.5	mg/kg	0.5	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Lead	15	mg/kg	0.5	284752.2	210629.6	2310	NO	NO	0.01	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Mercury	< 0.05	mg/kg	0.05	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Nickel	28	mg/kg	0.5	284752.2	210629.6	1770	NO	NO	0.02	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Arsenic	2.7	mg/kg	0.5	284752.2	210629.6	635	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Cadmium	0.14	mg/kg	0.1	284752.2	210629.6	410	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Chromium	14	mg/kg	0.5	284752.2	210629.6	208000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Copper	31	mg/kg	0.5	284752.2	210629.6	106000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Vanadium	9	mg/kg	0.5	284752.2	210629.6	7490	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Zinc	76	mg/kg	0.5	284752.2	210629.6	1100000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Selenium	0.62	mg/kg	0.25	284752.2	210629.6	13000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Acenaphthene	< 0.1	mg/kg	0.1	284752.2	210629.6	83600	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Phenanthrene	0.23	mg/kg	0.1	284752.2	210629.6	535000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Fluorene	< 0.1	mg/kg	0.1	284752.2	210629.6	66500	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Naphthalene	0.17	mg/kg	0.1	284752.2	210629.6	90.1	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Cyanide (Free)	< 0.5	mg/kg	0.5	284752.2	210629.6	373	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Total Phenols	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Total Of 16 PAH's	< 2.0	mg/kg	2	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH109	236.37	8.4	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284752.2	210629.6	27900	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284752.2	210629.6	2210	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284752.2	210629.6	12300	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284752.2	210629.6	41300	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284752.2	210629.6	28400	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284752.2	210629.6	28400	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284752.2	210629.6	4490	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284752.2	210629.6	10400	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284752.2	210629.6	1370	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284752.2	210629.6	7900	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284752.2	210629.6	34000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284752.2	210629.6	3620000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284752.2	210629.6	3620000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284752.2	210629.6	12.5	NO	NO	0.08	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Ethylbenzene	< 0.001	mg/kg	0.001	284752.2	210629.6	7660	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Toluene	< 0.001	mg/kg	0.001	284752.2	210629.6	27900	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Benzene	< 0.001	mg/kg	0.001	284752.2	210629.6	12.5	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	o-Xylene	< 0.001	mg/kg	0.001	284752.2	210629.6	3030	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	m & p-Xylene	< 0.001	mg/kg	0.001	284752.2	210629.6	2720	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	pH	8.2	-	4	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Organic Matter	85	%	0.4	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Anthracene	< 0.1	mg/kg	0.1	284752.2	210629.6	535000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Pyrene	< 0.1	mg/kg	0.1	284752.2	210629.6	54100	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284752.2	210629.6	49.1	NO	NO	0.01	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Fluoranthene	< 0.1	mg/kg	0.1	284752.2	210629.6	72200	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Acenaphthylene	< 0.1	mg/kg	0.1	284752.2	210629.6	83600	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Chrysene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284752.2	210629.6	76.3	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Cyanide (Total)	< 0.5	mg/kg	0.5	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Lead	12	mg/kg	0.5	284752.2	210629.6	2310	NO	NO	0.01	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Mercury	< 0.05	mg/kg	0.05	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Nickel	15	mg/kg	0.5	284752.2	210629.6	1770	NO	NO	0.01	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Arsenic	3.6	mg/kg	0.5	284752.2	210629.6	635	NO	NO	0.01	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Boron (Hot Water Soluble)	0.42	mg/kg	0.4	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Cadmium	< 0.1	mg/kg	0.1	284752.2	210629.6	410	NO	NO	0	POINT (284752.18 210629.62)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH109	236.37	0.7	Chromium	2.2	mg/kg	0.5	284752.2	210629.6	208000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Copper	20	mg/kg	0.5	284752.2	210629.6	106000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Vanadium	3.2	mg/kg	0.5	284752.2	210629.6	7490	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Zinc	41	mg/kg	0.5	284752.2	210629.6	1100000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Selenium	0.8	mg/kg	0.25	284752.2	210629.6	13000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Acenaphthene	< 0.1	mg/kg	0.1	284752.2	210629.6	83600	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Phenanthrene	< 0.1	mg/kg	0.1	284752.2	210629.6	535000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Fluorene	< 0.1	mg/kg	0.1	284752.2	210629.6	66500	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Naphthalene	2.1	mg/kg	0.1	284752.2	210629.6	90.1	NO	NO	0.02	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Cyanide (Free)	< 0.5	mg/kg	0.5	284752.2	210629.6	373	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Total Phenols	< 0.1	mg/kg	0.1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Total Of 16 PAH's	2.1	mg/kg	2	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284752.2	210629.6	27900	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284752.2	210629.6	2210	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284752.2	210629.6	12300	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284752.2	210629.6	41300	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284752.2	210629.6	28400	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284752.2	210629.6	28400	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284752.2	210629.6	4490	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284752.2	210629.6	10400	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284752.2	210629.6	1370	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284752.2	210629.6	7900	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284752.2	210629.6	34000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284752.2	210629.6	3620000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284752.2	210629.6	3620000	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284752.2	210629.6	12.5	NO	NO	0.08	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Ethylbenzene	< 0.001	mg/kg	0.001	284752.2	210629.6	7660	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Toluene	< 0.001	mg/kg	0.001	284752.2	210629.6	27900	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Benzene	< 0.001	mg/kg	0.001	284752.2	210629.6	12.5	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	o-Xylene	< 0.001	mg/kg	0.001	284752.2	210629.6	3030	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	m & p-Xylene	< 0.001	mg/kg	0.001	284752.2	210629.6	2720	NO	NO	0	POINT (284752.18 210629.62)
S1-BH110	234.05	0.3	pH	7.1	-	4	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Organic Matter	11	%	0.4	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Anthracene	< 0.1	mg/kg	0.1	284595.1	210619.9	535000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Pyrene	< 0.1	mg/kg	0.1	284595.1	210619.9	54100	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284595.1	210619.9	49.1	NO	NO	0.01	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Fluoranthene	< 0.1	mg/kg	0.1	284595.1	210619.9	72200	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH110	234.05	0.3	Acenaphthylene	< 0.1	mg/kg	0.1	284595.1	210619.9	83600	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Chrysene	< 0.1	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284595.1	210619.9	76.3	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Cyanide (Total)	< 0.5	mg/kg	0.5	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Lead	23	mg/kg	0.5	284595.1	210619.9	2310	NO	NO	0.01	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Mercury	0.05	mg/kg	0.05	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Nickel	47	mg/kg	0.5	284595.1	210619.9	1770	NO	NO	0.03	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Arsenic	7	mg/kg	0.5	284595.1	210619.9	635	NO	NO	0.01	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Cadmium	0.21	mg/kg	0.1	284595.1	210619.9	410	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Chromium	6.2	mg/kg	0.5	284595.1	210619.9	208000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Copper	37	mg/kg	0.5	284595.1	210619.9	106000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Vanadium	12	mg/kg	0.5	284595.1	210619.9	7490	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Zinc	120	mg/kg	0.5	284595.1	210619.9	1100000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Selenium	0.83	mg/kg	0.25	284595.1	210619.9	13000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Acenaphthene	< 0.1	mg/kg	0.1	284595.1	210619.9	83600	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Phenanthrene	0.25	mg/kg	0.1	284595.1	210619.9	535000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Fluorene	< 0.1	mg/kg	0.1	284595.1	210619.9	66500	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Naphthalene	0.56	mg/kg	0.1	284595.1	210619.9	90.1	NO	NO	0.01	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Cyanide (Free)	< 0.5	mg/kg	0.5	284595.1	210619.9	373	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Total Phenols	< 0.1	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Total Of 16 PAH's	< 2.0	mg/kg	2	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284595.1	210619.9	27900	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284595.1	210619.9	2210	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284595.1	210619.9	12300	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284595.1	210619.9	41300	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284595.1	210619.9	28400	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284595.1	210619.9	28400	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284595.1	210619.9	4490	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284595.1	210619.9	10400	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284595.1	210619.9	1370	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284595.1	210619.9	7900	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284595.1	210619.9	34000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284595.1	210619.9	3620000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284595.1	210619.9	3620000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284595.1	210619.9	12.5	NO	NO	0.08	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Ethylbenzene	< 0.001	mg/kg	0.001	284595.1	210619.9	7660	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Toluene	< 0.001	mg/kg	0.001	284595.1	210619.9	27900	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	Benzene	< 0.001	mg/kg	0.001	284595.1	210619.9	12.5	NO	NO	0	POINT (284595.14 210619.88)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH110	234.05	0.3	o-Xylene	< 0.001	mg/kg	0.001	284595.1	210619.9	3030	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	m & p-Xylene	< 0.001	mg/kg	0.001	284595.1	210619.9	2720	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	pH	8.3	-	4	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	pH	7.2	-	4	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Loss On Ignition	11	%	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Organic Matter	33	%	0.4	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Total Organic Carbon	25	%	0.2	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Dry Mass Of Test Portion	0.175	kg	0	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Anthracene	< 0.1	mg/kg	0.1	284595.1	210619.9	535000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Pyrene	< 0.1	mg/kg	0.1	284595.1	210619.9	54100	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Total PCBs (7 Congeners)	< 0.1	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284595.1	210619.9	49.1	NO	NO	0.01	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Fluoranthene	< 0.1	mg/kg	0.1	284595.1	210619.9	72200	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Acenaphthylene	< 0.1	mg/kg	0.1	284595.1	210619.9	83600	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Chrysene	< 0.1	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284595.1	210619.9	76.3	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Cyanide (Total)	< 0.5	mg/kg	0.5	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Lead	36	mg/kg	0.5	284595.1	210619.9	2310	NO	NO	0.02	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Mercury	0.09	mg/kg	0.05	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Nickel	16	mg/kg	0.5	284595.1	210619.9	1770	NO	NO	0.01	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Arsenic	4.9	mg/kg	0.5	284595.1	210619.9	635	NO	NO	0.01	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Boron (Hot Water Soluble)	0.87	mg/kg	0.4	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Cadmium	< 0.1	mg/kg	0.1	284595.1	210619.9	410	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Chromium	2.2	mg/kg	0.5	284595.1	210619.9	208000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Copper	77	mg/kg	0.5	284595.1	210619.9	106000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Vanadium	4.7	mg/kg	0.5	284595.1	210619.9	7490	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Zinc	40	mg/kg	0.5	284595.1	210619.9	1100000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Selenium	1.7	mg/kg	0.25	284595.1	210619.9	13000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Acenaphthene	< 0.1	mg/kg	0.1	284595.1	210619.9	83600	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Phenanthrene	0.12	mg/kg	0.1	284595.1	210619.9	535000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Fluorene	< 0.1	mg/kg	0.1	284595.1	210619.9	66500	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Naphthalene	0.13	mg/kg	0.1	284595.1	210619.9	90.1	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Cyanide (Free)	< 0.5	mg/kg	0.5	284595.1	210619.9	373	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Total Phenols	< 0.1	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Total Of 16 PAH's	< 2.0	mg/kg	2	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Total (Of 17) PAH's	< 2.0	mg/kg	2	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Total BTEX	< 0.01	mg/kg	0.01	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284595.1	210619.9	27900	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284595.1	210619.9	2210	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284595.1	210619.9	12300	NO	NO	0	POINT (284595.14 210619.88)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH110	234.05	1.8	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284595.1	210619.9	41300	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284595.1	210619.9	28400	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284595.1	210619.9	28400	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	TPH Total WAC	< 10.0	mg/kg	10	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284595.1	210619.9	4490	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284595.1	210619.9	10400	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284595.1	210619.9	1370	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284595.1	210619.9	7900	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284595.1	210619.9	34000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284595.1	210619.9	3620000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284595.1	210619.9	3620000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284595.1	210619.9	12.5	NO	NO	0.08	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Acid Neutralisation Capacity	0.012	mol/kg	0	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Ethylbenzene	< 0.001	mg/kg	0.001	284595.1	210619.9	7660	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Toluene	< 0.001	mg/kg	0.001	284595.1	210619.9	27900	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Benzene	< 0.001	mg/kg	0.001	284595.1	210619.9	12.5	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	o-Xylene	< 0.001	mg/kg	0.001	284595.1	210619.9	3030	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	m & p-Xylene	< 0.001	mg/kg	0.001	284595.1	210619.9	2720	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	pH	8.2	-	4	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Organic Matter	100	%	0.4	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Anthracene	< 0.1	mg/kg	0.1	284595.1	210619.9	535000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Pyrene	0.17	mg/kg	0.1	284595.1	210619.9	54100	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284595.1	210619.9	49.1	NO	NO	0.01	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Benzo[g,h,i]perylene	0.15	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Benzo[b]fluoranthene	0.19	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Fluoranthene	0.13	mg/kg	0.1	284595.1	210619.9	72200	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Acenaphthylene	< 0.1	mg/kg	0.1	284595.1	210619.9	83600	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Chrysene	0.24	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284595.1	210619.9	76.3	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Benzo[a]anthracene	0.14	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Cyanide (Total)	< 0.5	mg/kg	0.5	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Lead	23	mg/kg	0.5	284595.1	210619.9	2310	NO	NO	0.01	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Mercury	0.14	mg/kg	0.05	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Nickel	41	mg/kg	0.5	284595.1	210619.9	1770	NO	NO	0.02	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Arsenic	8.1	mg/kg	0.5	284595.1	210619.9	635	NO	NO	0.01	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Boron (Hot Water Soluble)	0.41	mg/kg	0.4	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Cadmium	0.27	mg/kg	0.1	284595.1	210619.9	410	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Chromium	5	mg/kg	0.5	284595.1	210619.9	208000	NO	NO	0	POINT (284595.14 210619.88)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH110	234.05	0.6	Copper	37	mg/kg	0.5	284595.1	210619.9	106000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Vanadium	7.3	mg/kg	0.5	284595.1	210619.9	7490	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Zinc	88	mg/kg	0.5	284595.1	210619.9	1100000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Selenium	2	mg/kg	0.25	284595.1	210619.9	13000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Acenaphthene	< 0.1	mg/kg	0.1	284595.1	210619.9	83600	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Phenanthrene	1.7	mg/kg	0.1	284595.1	210619.9	535000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Fluorene	0.38	mg/kg	0.1	284595.1	210619.9	66500	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Naphthalene	0.7	mg/kg	0.1	284595.1	210619.9	90.1	NO	NO	0.01	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Cyanide (Free)	< 0.5	mg/kg	0.5	284595.1	210619.9	373	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Total Phenols	< 0.1	mg/kg	0.1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Total Of 16 PAH's	3.8	mg/kg	2	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284595.1	210619.9	27900	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284595.1	210619.9	2210	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284595.1	210619.9	12300	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284595.1	210619.9	41300	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284595.1	210619.9	28400	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284595.1	210619.9	28400	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284595.1	210619.9	4490	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284595.1	210619.9	10400	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284595.1	210619.9	1370	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284595.1	210619.9	7900	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284595.1	210619.9	34000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284595.1	210619.9	3620000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284595.1	210619.9	3620000	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284595.1	210619.9	12.5	NO	NO	0.08	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Ethylbenzene	< 0.001	mg/kg	0.001	284595.1	210619.9	7660	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Toluene	< 0.001	mg/kg	0.001	284595.1	210619.9	27900	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Benzene	< 0.001	mg/kg	0.001	284595.1	210619.9	12.5	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	o-Xylene	< 0.001	mg/kg	0.001	284595.1	210619.9	3030	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	m & p-Xylene	< 0.001	mg/kg	0.001	284595.1	210619.9	2720	NO	NO	0	POINT (284595.14 210619.88)
S1-BH112	237.94	1.5	pH	7.1	-	4	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Organic Matter	81	%	0.4	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Anthracene	< 0.1	mg/kg	0.1	284882.1	210600	535000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Pyrene	< 0.1	mg/kg	0.1	284882.1	210600	54100	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284882.1	210600	49.1	NO	NO	0.01	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Fluoranthene	< 0.1	mg/kg	0.1	284882.1	210600	72200	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Acenaphthylene	< 0.1	mg/kg	0.1	284882.1	210600	83600	NO	NO	0	POINT (284882.07 210599.97)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH112	237.94	1.5	Chrysene	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284882.1	210600	76.3	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Cyanide (Total)	< 0.5	mg/kg	0.5	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Lead	19	mg/kg	0.5	284882.1	210600	2310	NO	NO	0.01	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Mercury	0.1	mg/kg	0.05	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Nickel	27	mg/kg	0.5	284882.1	210600	1770	NO	NO	0.02	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Arsenic	8.8	mg/kg	0.5	284882.1	210600	635	NO	NO	0.01	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Cadmium	0.11	mg/kg	0.1	284882.1	210600	410	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Chromium	3.5	mg/kg	0.5	284882.1	210600	208000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Copper	38	mg/kg	0.5	284882.1	210600	106000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Vanadium	5.2	mg/kg	0.5	284882.1	210600	7490	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Zinc	47	mg/kg	0.5	284882.1	210600	1100000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Selenium	1.7	mg/kg	0.25	284882.1	210600	13000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Acenaphthene	< 0.1	mg/kg	0.1	284882.1	210600	83600	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Phenanthrene	0.17	mg/kg	0.1	284882.1	210600	535000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Fluorene	< 0.1	mg/kg	0.1	284882.1	210600	66500	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Naphthalene	0.42	mg/kg	0.1	284882.1	210600	90.1	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Cyanide (Free)	< 0.5	mg/kg	0.5	284882.1	210600	373	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Total Phenols	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Total Of 16 PAH's	< 2.0	mg/kg	2	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284882.1	210600	27900	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284882.1	210600	2210	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284882.1	210600	12300	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284882.1	210600	41300	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284882.1	210600	28400	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284882.1	210600	28400	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284882.1	210600	4490	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284882.1	210600	10400	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284882.1	210600	1370	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284882.1	210600	7900	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284882.1	210600	34000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284882.1	210600	3620000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284882.1	210600	3620000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284882.1	210600	12.5	NO	NO	0.08	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Ethylbenzene	< 0.001	mg/kg	0.001	284882.1	210600	7660	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Toluene	0.009	mg/kg	0.001	284882.1	210600	27900	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Benzene	0.022	mg/kg	0.001	284882.1	210600	12.5	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	o-Xylene	< 0.001	mg/kg	0.001	284882.1	210600	3030	NO	NO	0	POINT (284882.07 210599.97)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH112	237.94	1.5	m & p-Xylene	< 0.001	mg/kg	0.001	284882.1	210600	2720	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	pH	6.5	-	4	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	pH	6.5	-	4	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Loss On Ignition	7.5	%	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Organic Matter	2.7	%	0.4	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Total Organic Carbon	1.6	%	0.2	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Dry Mass Of Test Portion	0.175	kg	0	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Anthracene	< 0.1	mg/kg	0.1	284882.1	210600	535000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Pyrene	< 0.1	mg/kg	0.1	284882.1	210600	54100	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Total PCBs (7 Congeners)	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284882.1	210600	49.1	NO	NO	0.01	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Fluoranthene	< 0.1	mg/kg	0.1	284882.1	210600	72200	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Acenaphthylene	< 0.1	mg/kg	0.1	284882.1	210600	83600	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Chrysene	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284882.1	210600	76.3	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Cyanide (Total)	< 0.5	mg/kg	0.5	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Lead	19	mg/kg	0.5	284882.1	210600	2310	NO	NO	0.01	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Mercury	< 0.05	mg/kg	0.05	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Nickel	13	mg/kg	0.5	284882.1	210600	1770	NO	NO	0.01	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Arsenic	15	mg/kg	0.5	284882.1	210600	635	NO	NO	0.02	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Boron (Hot Water Soluble)	0.93	mg/kg	0.4	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Cadmium	< 0.1	mg/kg	0.1	284882.1	210600	410	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Chromium	23	mg/kg	0.5	284882.1	210600	208000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Copper	27	mg/kg	0.5	284882.1	210600	106000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Vanadium	43	mg/kg	0.5	284882.1	210600	7490	NO	NO	0.01	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Zinc	44	mg/kg	0.5	284882.1	210600	1100000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Selenium	1.7	mg/kg	0.25	284882.1	210600	13000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Acenaphthene	< 0.1	mg/kg	0.1	284882.1	210600	83600	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Phenanthrene	< 0.1	mg/kg	0.1	284882.1	210600	535000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Fluorene	< 0.1	mg/kg	0.1	284882.1	210600	66500	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Naphthalene	< 0.1	mg/kg	0.1	284882.1	210600	90.1	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Cyanide (Free)	< 0.5	mg/kg	0.5	284882.1	210600	373	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Total Phenols	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Total (Of 17) PAH's	< 2.0	mg/kg	2	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Total Of 16 PAH's	< 2.0	mg/kg	2	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Total BTEX	< 0.01	mg/kg	0.01	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284882.1	210600	27900	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284882.1	210600	2210	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284882.1	210600	12300	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284882.1	210600	41300	NO	NO	0	POINT (284882.07 210599.97)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH112	237.94	3.7	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284882.1	210600	28400	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284882.1	210600	28400	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	TPH Total WAC	< 10.0	mg/kg	10	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284882.1	210600	4490	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284882.1	210600	10400	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284882.1	210600	1370	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284882.1	210600	7900	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284882.1	210600	34000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284882.1	210600	3620000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284882.1	210600	3620000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284882.1	210600	12.5	NO	NO	0.08	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Acid Neutralisation Capacity	0.004	mol/kg	0	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Ethylbenzene	< 0.001	mg/kg	0.001	284882.1	210600	7660	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Toluene	< 0.001	mg/kg	0.001	284882.1	210600	27900	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	Benzene	< 0.001	mg/kg	0.001	284882.1	210600	12.5	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	o-Xylene	< 0.001	mg/kg	0.001	284882.1	210600	3030	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	3.7	m & p-Xylene	< 0.001	mg/kg	0.001	284882.1	210600	2720	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	pH	8	-	4	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	pH	8	-	4	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Loss On Ignition	4	%	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Organic Matter	41	%	0.4	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Total Organic Carbon	24	%	0.2	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Dry Mass Of Test Portion	0.175	kg	0	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Anthracene	0.11	mg/kg	0.1	284882.1	210600	535000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Pyrene	0.2	mg/kg	0.1	284882.1	210600	54100	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Total PCBs (7 Congeners)	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284882.1	210600	49.1	NO	NO	0.01	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Fluoranthene	0.33	mg/kg	0.1	284882.1	210600	72200	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Acenaphthylene	< 0.1	mg/kg	0.1	284882.1	210600	83600	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Chrysene	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284882.1	210600	76.3	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Cyanide (Total)	< 0.5	mg/kg	0.5	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Lead	24	mg/kg	0.5	284882.1	210600	2310	NO	NO	0.01	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Mercury	0.1	mg/kg	0.05	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Nickel	17	mg/kg	0.5	284882.1	210600	1770	NO	NO	0.01	POINT (284882.07 210599.97)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH112	237.94	0.5	Arsenic	7.8	mg/kg	0.5	284882.1	210600	635	NO	NO	0.01	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Boron (Hot Water Soluble)	0.57	mg/kg	0.4	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Cadmium	0.19	mg/kg	0.1	284882.1	210600	410	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Chromium	3.8	mg/kg	0.5	284882.1	210600	208000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Copper	36	mg/kg	0.5	284882.1	210600	106000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Vanadium	5.9	mg/kg	0.5	284882.1	210600	7490	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Zinc	94	mg/kg	0.5	284882.1	210600	1100000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Selenium	1.7	mg/kg	0.25	284882.1	210600	13000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Acenaphthene	0.21	mg/kg	0.1	284882.1	210600	83600	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Phenanthrene	0.66	mg/kg	0.1	284882.1	210600	535000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Fluorene	0.15	mg/kg	0.1	284882.1	210600	66500	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Naphthalene	1.3	mg/kg	0.1	284882.1	210600	90.1	NO	NO	0.01	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Cyanide (Free)	< 0.5	mg/kg	0.5	284882.1	210600	373	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Total Phenols	< 0.1	mg/kg	0.1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Total (Of 17) PAH's	2.9	mg/kg	2	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Total Of 16 PAH's	3	mg/kg	2	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Total BTEX	< 0.01	mg/kg	0.01	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284882.1	210600	27900	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284882.1	210600	2210	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284882.1	210600	12300	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284882.1	210600	41300	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284882.1	210600	28400	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284882.1	210600	28400	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	TPH Total WAC	60	mg/kg	10	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284882.1	210600	4490	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284882.1	210600	10400	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284882.1	210600	1370	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284882.1	210600	7900	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284882.1	210600	34000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284882.1	210600	3620000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284882.1	210600	3620000	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284882.1	210600	12.5	NO	NO	0.08	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Acid Neutralisation Capacity	0.005	mol/kg	0	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Ethylbenzene	< 0.001	mg/kg	0.001	284882.1	210600	7660	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Toluene	< 0.001	mg/kg	0.001	284882.1	210600	27900	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Benzene	< 0.001	mg/kg	0.001	284882.1	210600	12.5	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	o-Xylene	< 0.001	mg/kg	0.001	284882.1	210600	3030	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	m & p-Xylene	< 0.001	mg/kg	0.001	284882.1	210600	2720	NO	NO	0	POINT (284882.07 210599.97)
S1-BH113	236.95	0.5	pH	7.6	-	4	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Organic Matter	32	%	0.4	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Anthracene	< 0.1	mg/kg	0.1	284799.6	210645.6	535000	NO	NO	0	POINT (284799.55 210645.61)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH113	236.95	0.5	Pyrene	< 0.1	mg/kg	0.1	284799.6	210645.6	54100	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284799.6	210645.6	49.1	NO	NO	0.01	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Fluoranthene	< 0.1	mg/kg	0.1	284799.6	210645.6	72200	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Acenaphthylene	< 0.1	mg/kg	0.1	284799.6	210645.6	83600	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Chrysene	< 0.1	mg/kg	0.1	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284799.6	210645.6	76.3	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Cyanide (Total)	< 0.5	mg/kg	0.5	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Lead	20	mg/kg	0.5	284799.6	210645.6	2310	NO	NO	0.01	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Mercury	0.07	mg/kg	0.05	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Nickel	38	mg/kg	0.5	284799.6	210645.6	1770	NO	NO	0.02	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Arsenic	6.8	mg/kg	0.5	284799.6	210645.6	635	NO	NO	0.01	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Cadmium	0.11	mg/kg	0.1	284799.6	210645.6	410	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Chromium	4.5	mg/kg	0.5	284799.6	210645.6	208000	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Copper	33	mg/kg	0.5	284799.6	210645.6	106000	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Vanadium	5.2	mg/kg	0.5	284799.6	210645.6	7490	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Zinc	66	mg/kg	0.5	284799.6	210645.6	1100000	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Selenium	1.2	mg/kg	0.25	284799.6	210645.6	13000	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Acenaphthene	< 0.1	mg/kg	0.1	284799.6	210645.6	83600	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Phenanthrene	< 0.1	mg/kg	0.1	284799.6	210645.6	535000	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Fluorene	< 0.1	mg/kg	0.1	284799.6	210645.6	66500	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Naphthalene	0.39	mg/kg	0.1	284799.6	210645.6	90.1	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Cyanide (Free)	< 0.5	mg/kg	0.5	284799.6	210645.6	373	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Total Phenols	< 0.1	mg/kg	0.1	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Total Of 16 PAH's	< 2.0	mg/kg	2	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284799.6	210645.6	27900	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284799.6	210645.6	2210	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284799.6	210645.6	12300	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284799.6	210645.6	41300	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284799.6	210645.6	28400	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284799.6	210645.6	28400	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284799.6	210645.6	4490	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284799.6	210645.6	10400	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284799.6	210645.6	1370	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284799.6	210645.6	7900	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284799.6	210645.6	34000	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284799.6	210645.6	3620000	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284799.6	210645.6	3620000	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH113	236.95	0.5	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284799.6	210645.6	12.5	NO	NO	0.08	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Ethylbenzene	< 0.001	mg/kg	0.001	284799.6	210645.6	7660	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Toluene	< 0.001	mg/kg	0.001	284799.6	210645.6	27900	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	Benzene	< 0.001	mg/kg	0.001	284799.6	210645.6	12.5	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	o-Xylene	< 0.001	mg/kg	0.001	284799.6	210645.6	3030	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	0.5	m & p-Xylene	< 0.001	mg/kg	0.001	284799.6	210645.6	2720	NO	NO	0	POINT (284799.55 210645.61)
S1-BH114	228.51	0.2	pH	8.2	-	4	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Organic Matter	50	%	0.4	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Anthracene	0.55	mg/kg	0.1	284194.9	210572.3	535000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Pyrene	2.7	mg/kg	0.1	284194.9	210572.3	54100	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284194.9	210572.3	49.1	NO	NO	0.01	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Benzo[g,h,i]perylene	0.76	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Indeno(1,2,3-c,d)Pyrene	0.8	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Benzo[b]fluoranthene	2.9	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Fluoranthene	3.3	mg/kg	0.1	284194.9	210572.3	72200	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Benzo[k]fluoranthene	0.7	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Acenaphthylene	0.15	mg/kg	0.1	284194.9	210572.3	83600	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Chrysene	2	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Benzo[a]pyrene	1	mg/kg	0.1	284194.9	210572.3	76.3	NO	NO	0.01	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Benzo[a]anthracene	1.3	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Cyanide (Total)	< 0.5	mg/kg	0.5	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Lead	67	mg/kg	0.5	284194.9	210572.3	2310	NO	NO	0.03	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Mercury	0.1	mg/kg	0.05	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Nickel	27	mg/kg	0.5	284194.9	210572.3	1770	NO	NO	0.02	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Arsenic	17	mg/kg	0.5	284194.9	210572.3	635	NO	NO	0.03	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Cadmium	0.71	mg/kg	0.1	284194.9	210572.3	410	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Chromium	13	mg/kg	0.5	284194.9	210572.3	208000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Copper	130	mg/kg	0.5	284194.9	210572.3	106000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Vanadium	24	mg/kg	0.5	284194.9	210572.3	7490	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Zinc	96	mg/kg	0.5	284194.9	210572.3	1100000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Selenium	1.7	mg/kg	0.25	284194.9	210572.3	13000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Acenaphthene	0.18	mg/kg	0.1	284194.9	210572.3	83600	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Phenanthrene	2.1	mg/kg	0.1	284194.9	210572.3	535000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Fluorene	< 0.1	mg/kg	0.1	284194.9	210572.3	66500	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Naphthalene	1	mg/kg	0.1	284194.9	210572.3	90.1	NO	NO	0.01	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Cyanide (Free)	< 0.5	mg/kg	0.5	284194.9	210572.3	373	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Total Phenols	< 0.1	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Total Of 16 PAH's	19	mg/kg	2	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284194.9	210572.3	27900	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284194.9	210572.3	2210	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284194.9	210572.3	12300	NO	NO	0	POINT (284194.89 210572.28)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH114	228.51	0.2	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284194.9	210572.3	41300	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284194.9	210572.3	28400	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284194.9	210572.3	28400	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284194.9	210572.3	4490	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284194.9	210572.3	10400	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284194.9	210572.3	1370	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284194.9	210572.3	7900	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284194.9	210572.3	34000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284194.9	210572.3	3620000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284194.9	210572.3	3620000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284194.9	210572.3	12.5	NO	NO	0.08	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Ethylbenzene	< 0.001	mg/kg	0.001	284194.9	210572.3	7660	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Toluene	< 0.001	mg/kg	0.001	284194.9	210572.3	27900	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	Benzene	< 0.001	mg/kg	0.001	284194.9	210572.3	12.5	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	o-Xylene	< 0.001	mg/kg	0.001	284194.9	210572.3	3030	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	m & p-Xylene	< 0.001	mg/kg	0.001	284194.9	210572.3	2720	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	pH	7.7	-	4	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Organic Matter	30	%	0.4	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Anthracene	0.24	mg/kg	0.1	284194.9	210572.3	535000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Pyrene	0.42	mg/kg	0.1	284194.9	210572.3	54100	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284194.9	210572.3	49.1	NO	NO	0.01	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Benzo[g,h,i]perylene	0.1	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Indeno(1,2,3-c,d)Pyrene	0.24	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Benzo[b]fluoranthene	0.4	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Fluoranthene	0.6	mg/kg	0.1	284194.9	210572.3	72200	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Acenaphthylene	< 0.1	mg/kg	0.1	284194.9	210572.3	83600	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Chrysene	0.29	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Benzo[a]pyrene	0.26	mg/kg	0.1	284194.9	210572.3	76.3	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Benzo[a]anthracene	0.24	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Cyanide (Total)	< 0.5	mg/kg	0.5	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Lead	23	mg/kg	0.5	284194.9	210572.3	2310	NO	NO	0.01	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Mercury	0.11	mg/kg	0.05	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Nickel	17	mg/kg	0.5	284194.9	210572.3	1770	NO	NO	0.01	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Arsenic	13	mg/kg	0.5	284194.9	210572.3	635	NO	NO	0.02	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Boron (Hot Water Soluble)	0.56	mg/kg	0.4	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Cadmium	< 0.1	mg/kg	0.1	284194.9	210572.3	410	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Chromium	5.4	mg/kg	0.5	284194.9	210572.3	208000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Copper	58	mg/kg	0.5	284194.9	210572.3	106000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Vanadium	9.5	mg/kg	0.5	284194.9	210572.3	7490	NO	NO	0	POINT (284194.89 210572.28)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH114	228.51	0.7	Zinc	31	mg/kg	0.5	284194.9	210572.3	1100000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Selenium	1.1	mg/kg	0.25	284194.9	210572.3	13000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Acenaphthene	0.1	mg/kg	0.1	284194.9	210572.3	83600	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Phenanthrene	0.69	mg/kg	0.1	284194.9	210572.3	535000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Fluorene	0.11	mg/kg	0.1	284194.9	210572.3	66500	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Naphthalene	0.45	mg/kg	0.1	284194.9	210572.3	90.1	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Cyanide (Free)	< 0.5	mg/kg	0.5	284194.9	210572.3	373	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Total Phenols	< 0.1	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Total Of 16 PAH's	4.1	mg/kg	2	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284194.9	210572.3	27900	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284194.9	210572.3	2210	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284194.9	210572.3	12300	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284194.9	210572.3	41300	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284194.9	210572.3	28400	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284194.9	210572.3	28400	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284194.9	210572.3	4490	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284194.9	210572.3	10400	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284194.9	210572.3	1370	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284194.9	210572.3	7900	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284194.9	210572.3	34000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284194.9	210572.3	3620000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284194.9	210572.3	3620000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284194.9	210572.3	12.5	NO	NO	0.08	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Ethylbenzene	< 0.001	mg/kg	0.001	284194.9	210572.3	7660	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Toluene	< 0.001	mg/kg	0.001	284194.9	210572.3	27900	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Benzene	< 0.001	mg/kg	0.001	284194.9	210572.3	12.5	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	o-Xylene	< 0.001	mg/kg	0.001	284194.9	210572.3	3030	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	m & p-Xylene	< 0.001	mg/kg	0.001	284194.9	210572.3	2720	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	pH	6.7	-	4	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	pH	6.7	-	4	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Loss On Ignition	5	%	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Organic Matter	2	%	0.4	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Total Organic Carbon	1.1	%	0.2	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Dry Mass Of Test Portion	0.175	kg	0	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Anthracene	0.93	mg/kg	0.1	284194.9	210572.3	535000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Pyrene	3	mg/kg	0.1	284194.9	210572.3	54100	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Total PCBs (7 Congeners)	< 0.1	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284194.9	210572.3	49.1	NO	NO	0.01	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Benzo[g,h,i]perylene	0.89	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Indeno(1,2,3-c,d)Pyrene	0.98	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Benzo[b]fluoranthene	1.7	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH114	228.51	1.7	Fluoranthene	3.8	mg/kg	0.1	284194.9	210572.3	72200	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Benzo[k]fluoranthene	0.62	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Acenaphthylene	< 0.1	mg/kg	0.1	284194.9	210572.3	83600	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Chrysene	1.1	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Benzo[a]pyrene	1.3	mg/kg	0.1	284194.9	210572.3	76.3	NO	NO	0.02	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Dibenz(a,h)Anthracene	0.14	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Benzo[a]anthracene	1.4	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Cyanide (Total)	< 0.5	mg/kg	0.5	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Lead	13	mg/kg	0.5	284194.9	210572.3	2310	NO	NO	0.01	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Mercury	< 0.05	mg/kg	0.05	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Nickel	7.9	mg/kg	0.5	284194.9	210572.3	1770	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Arsenic	9.6	mg/kg	0.5	284194.9	210572.3	635	NO	NO	0.02	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Boron (Hot Water Soluble)	0.48	mg/kg	0.4	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Cadmium	< 0.1	mg/kg	0.1	284194.9	210572.3	410	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Chromium	9.8	mg/kg	0.5	284194.9	210572.3	208000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Copper	7.1	mg/kg	0.5	284194.9	210572.3	106000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Vanadium	18	mg/kg	0.5	284194.9	210572.3	7490	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Zinc	14	mg/kg	0.5	284194.9	210572.3	1100000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Selenium	0.4	mg/kg	0.25	284194.9	210572.3	13000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Acenaphthene	0.29	mg/kg	0.1	284194.9	210572.3	83600	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Phenanthrene	2.2	mg/kg	0.1	284194.9	210572.3	535000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Fluorene	0.34	mg/kg	0.1	284194.9	210572.3	66500	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Naphthalene	< 0.1	mg/kg	0.1	284194.9	210572.3	90.1	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Cyanide (Free)	< 0.5	mg/kg	0.5	284194.9	210572.3	373	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Total Phenols	< 0.1	mg/kg	0.1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Total (Of 17) PAH's	20	mg/kg	2	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Total Of 16 PAH's	19	mg/kg	2	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Total BTEX	< 0.01	mg/kg	0.01	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284194.9	210572.3	27900	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284194.9	210572.3	2210	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284194.9	210572.3	12300	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284194.9	210572.3	41300	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284194.9	210572.3	28400	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284194.9	210572.3	28400	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	TPH Total WAC	< 10.0	mg/kg	10	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284194.9	210572.3	4490	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284194.9	210572.3	10400	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284194.9	210572.3	1370	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284194.9	210572.3	7900	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284194.9	210572.3	34000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284194.9	210572.3	3620000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284194.9	210572.3	3620000	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284194.9	210572.3	12.5	NO	NO	0.08	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Total Petroleum Hydrocarbon	< 10.0	mg/kg	10	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH114	228.51	1.7	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Acid Neutralisation Capacity	< 0.002	mol/kg	0	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Ethylbenzene	< 0.001	mg/kg	0.001	284194.9	210572.3	7660	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Toluene	< 0.001	mg/kg	0.001	284194.9	210572.3	27900	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Benzene	< 0.001	mg/kg	0.001	284194.9	210572.3	12.5	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	o-Xylene	< 0.001	mg/kg	0.001	284194.9	210572.3	3030	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	m & p-Xylene	< 0.001	mg/kg	0.001	284194.9	210572.3	2720	NO	NO	0	POINT (284194.89 210572.28)
S1-BH116	237.25	2.7	pH	6.9	-	4	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Organic Matter	66	%	0.4	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Anthracene	< 0.1	mg/kg	0.1	284845.8	210624.4	535000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Pyrene	< 0.1	mg/kg	0.1	284845.8	210624.4	54100	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284845.8	210624.4	49.1	NO	NO	0.01	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Fluoranthene	< 0.1	mg/kg	0.1	284845.8	210624.4	72200	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Acenaphthylene	< 0.1	mg/kg	0.1	284845.8	210624.4	83600	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Chrysene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284845.8	210624.4	76.3	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Cyanide (Total)	< 0.5	mg/kg	0.5	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Lead	22	mg/kg	0.5	284845.8	210624.4	2310	NO	NO	0.01	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Mercury	0.11	mg/kg	0.05	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Nickel	16	mg/kg	0.5	284845.8	210624.4	1770	NO	NO	0.01	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Arsenic	7.3	mg/kg	0.5	284845.8	210624.4	635	NO	NO	0.01	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Cadmium	0.12	mg/kg	0.1	284845.8	210624.4	410	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Chromium	2	mg/kg	0.5	284845.8	210624.4	208000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Copper	32	mg/kg	0.5	284845.8	210624.4	106000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Vanadium	3.4	mg/kg	0.5	284845.8	210624.4	7490	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Zinc	58	mg/kg	0.5	284845.8	210624.4	1100000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Selenium	1.9	mg/kg	0.25	284845.8	210624.4	13000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Acenaphthene	0.12	mg/kg	0.1	284845.8	210624.4	83600	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Phenanthrene	0.28	mg/kg	0.1	284845.8	210624.4	535000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Fluorene	< 0.1	mg/kg	0.1	284845.8	210624.4	66500	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Naphthalene	1.4	mg/kg	0.1	284845.8	210624.4	90.1	NO	NO	0.02	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Cyanide (Free)	< 0.5	mg/kg	0.5	284845.8	210624.4	373	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Total Phenols	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Total Of 16 PAH's	< 2.0	mg/kg	2	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284845.8	210624.4	27900	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284845.8	210624.4	2210	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284845.8	210624.4	12300	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284845.8	210624.4	41300	NO	NO	0	POINT (284845.78 210624.37)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH116	237.25	2.7	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284845.8	210624.4	28400	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284845.8	210624.4	28400	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284845.8	210624.4	4490	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284845.8	210624.4	10400	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284845.8	210624.4	1370	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284845.8	210624.4	7900	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284845.8	210624.4	34000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284845.8	210624.4	3620000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284845.8	210624.4	3620000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284845.8	210624.4	12.5	NO	NO	0.08	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Ethylbenzene	< 0.001	mg/kg	0.001	284845.8	210624.4	7660	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Toluene	< 0.001	mg/kg	0.001	284845.8	210624.4	27900	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	Benzene	< 0.001	mg/kg	0.001	284845.8	210624.4	12.5	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	o-Xylene	< 0.001	mg/kg	0.001	284845.8	210624.4	3030	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	m & p-Xylene	< 0.001	mg/kg	0.001	284845.8	210624.4	2720	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	pH	6.5	-	4	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Organic Matter	23	%	0.4	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Anthracene	< 0.1	mg/kg	0.1	284845.8	210624.4	535000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Pyrene	0.28	mg/kg	0.1	284845.8	210624.4	54100	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284845.8	210624.4	49.1	NO	NO	0.01	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Fluoranthene	0.3	mg/kg	0.1	284845.8	210624.4	72200	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Acenaphthylene	< 0.1	mg/kg	0.1	284845.8	210624.4	83600	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Chrysene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284845.8	210624.4	76.3	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Cyanide (Total)	< 0.5	mg/kg	0.5	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Lead	18	mg/kg	0.5	284845.8	210624.4	2310	NO	NO	0.01	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Mercury	0.11	mg/kg	0.05	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Nickel	18	mg/kg	0.5	284845.8	210624.4	1770	NO	NO	0.01	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Arsenic	7.3	mg/kg	0.5	284845.8	210624.4	635	NO	NO	0.01	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Boron (Hot Water Soluble)	0.52	mg/kg	0.4	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Cadmium	< 0.1	mg/kg	0.1	284845.8	210624.4	410	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Chromium	4.3	mg/kg	0.5	284845.8	210624.4	208000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Copper	33	mg/kg	0.5	284845.8	210624.4	106000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Vanadium	5.9	mg/kg	0.5	284845.8	210624.4	7490	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Zinc	52	mg/kg	0.5	284845.8	210624.4	1100000	NO	NO	0	POINT (284845.78 210624.37)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH116	237.25	4.5	Selenium	1.5	mg/kg	0.25	284845.8	210624.4	13000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Acenaphthene	< 0.1	mg/kg	0.1	284845.8	210624.4	83600	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Phenanthrene	0.39	mg/kg	0.1	284845.8	210624.4	535000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Fluorene	< 0.1	mg/kg	0.1	284845.8	210624.4	66500	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Naphthalene	0.85	mg/kg	0.1	284845.8	210624.4	90.1	NO	NO	0.01	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Cyanide (Free)	< 0.5	mg/kg	0.5	284845.8	210624.4	373	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Total Phenols	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Total Of 16 PAH's	< 2.0	mg/kg	2	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284845.8	210624.4	27900	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284845.8	210624.4	2210	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284845.8	210624.4	12300	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284845.8	210624.4	41300	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284845.8	210624.4	28400	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284845.8	210624.4	28400	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284845.8	210624.4	4490	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284845.8	210624.4	10400	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284845.8	210624.4	1370	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284845.8	210624.4	7900	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284845.8	210624.4	34000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284845.8	210624.4	3620000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284845.8	210624.4	3620000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284845.8	210624.4	12.5	NO	NO	0.08	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Ethylbenzene	< 0.001	mg/kg	0.001	284845.8	210624.4	7660	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Toluene	< 0.001	mg/kg	0.001	284845.8	210624.4	27900	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Benzene	< 0.001	mg/kg	0.001	284845.8	210624.4	12.5	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	o-Xylene	< 0.001	mg/kg	0.001	284845.8	210624.4	3030	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	m & p-Xylene	< 0.001	mg/kg	0.001	284845.8	210624.4	2720	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	pH	6.5	-	4	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	pH	6.8	-	4	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Loss On Ignition	7.1	%	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Organic Matter	2.5	%	0.4	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Total Organic Carbon	1.4	%	0.2	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Dry Mass Of Test Portion	0.175	kg	0	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Anthracene	< 0.1	mg/kg	0.1	284845.8	210624.4	535000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Pyrene	< 0.1	mg/kg	0.1	284845.8	210624.4	54100	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Total PCBs (7 Congeners)	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284845.8	210624.4	49.1	NO	NO	0.01	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Fluoranthene	< 0.1	mg/kg	0.1	284845.8	210624.4	72200	NO	NO	0	POINT (284845.78 210624.37)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH116	237.25	5.1	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Acenaphthylene	< 0.1	mg/kg	0.1	284845.8	210624.4	83600	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Chrysene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284845.8	210624.4	76.3	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Cyanide (Total)	< 0.5	mg/kg	0.5	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Lead	7.3	mg/kg	0.5	284845.8	210624.4	2310	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Mercury	< 0.05	mg/kg	0.05	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Nickel	3.1	mg/kg	0.5	284845.8	210624.4	1770	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Arsenic	6.1	mg/kg	0.5	284845.8	210624.4	635	NO	NO	0.01	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Boron (Hot Water Soluble)	0.52	mg/kg	0.4	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Cadmium	< 0.1	mg/kg	0.1	284845.8	210624.4	410	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Chromium	6.8	mg/kg	0.5	284845.8	210624.4	208000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Copper	5.8	mg/kg	0.5	284845.8	210624.4	106000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Vanadium	9.6	mg/kg	0.5	284845.8	210624.4	7490	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Zinc	10	mg/kg	0.5	284845.8	210624.4	1100000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Selenium	0.44	mg/kg	0.25	284845.8	210624.4	13000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Acenaphthene	< 0.1	mg/kg	0.1	284845.8	210624.4	83600	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Phenanthrene	< 0.1	mg/kg	0.1	284845.8	210624.4	535000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Fluorene	< 0.1	mg/kg	0.1	284845.8	210624.4	66500	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Naphthalene	0.35	mg/kg	0.1	284845.8	210624.4	90.1	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Cyanide (Free)	< 0.5	mg/kg	0.5	284845.8	210624.4	373	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Total Phenols	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Total Of 16 PAH's	< 2.0	mg/kg	2	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Total (Of 17) PAH's	< 2.0	mg/kg	2	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Total BTEX	< 0.01	mg/kg	0.01	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284845.8	210624.4	27900	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284845.8	210624.4	2210	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284845.8	210624.4	12300	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284845.8	210624.4	41300	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284845.8	210624.4	28400	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284845.8	210624.4	28400	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	TPH Total WAC	< 10.0	mg/kg	10	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284845.8	210624.4	4490	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284845.8	210624.4	10400	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284845.8	210624.4	1370	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284845.8	210624.4	7900	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284845.8	210624.4	34000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284845.8	210624.4	3620000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284845.8	210624.4	3620000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284845.8	210624.4	12.5	NO	NO	0.08	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH116	237.25	5.1	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Acid Neutralisation Capacity	< 0.002	mol/kg	0	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Ethylbenzene	< 0.001	mg/kg	0.001	284845.8	210624.4	7660	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Toluene	< 0.001	mg/kg	0.001	284845.8	210624.4	27900	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	Benzene	< 0.001	mg/kg	0.001	284845.8	210624.4	12.5	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	o-Xylene	< 0.001	mg/kg	0.001	284845.8	210624.4	3030	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	5.1	m & p-Xylene	< 0.001	mg/kg	0.001	284845.8	210624.4	2720	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	pH	7.9	-	4	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Organic Matter	26	%	0.4	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Anthracene	< 0.1	mg/kg	0.1	284845.8	210624.4	535000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Pyrene	0.14	mg/kg	0.1	284845.8	210624.4	54100	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284845.8	210624.4	49.1	NO	NO	0.01	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Fluoranthene	0.13	mg/kg	0.1	284845.8	210624.4	72200	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Acenaphthylene	< 0.1	mg/kg	0.1	284845.8	210624.4	83600	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Chrysene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284845.8	210624.4	76.3	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Cyanide (Total)	< 0.5	mg/kg	0.5	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Lead	54	mg/kg	0.5	284845.8	210624.4	2310	NO	NO	0.02	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Mercury	0.38	mg/kg	0.05	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Nickel	26	mg/kg	0.5	284845.8	210624.4	1770	NO	NO	0.01	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Arsenic	26	mg/kg	0.5	284845.8	210624.4	635	NO	NO	0.04	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Cadmium	0.13	mg/kg	0.1	284845.8	210624.4	410	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Chromium	3.8	mg/kg	0.5	284845.8	210624.4	208000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Copper	65	mg/kg	0.5	284845.8	210624.4	106000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Vanadium	6.4	mg/kg	0.5	284845.8	210624.4	7490	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Zinc	50	mg/kg	0.5	284845.8	210624.4	1100000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Selenium	4.2	mg/kg	0.25	284845.8	210624.4	13000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Acenaphthene	< 0.1	mg/kg	0.1	284845.8	210624.4	83600	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Phenanthrene	0.21	mg/kg	0.1	284845.8	210624.4	535000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Fluorene	< 0.1	mg/kg	0.1	284845.8	210624.4	66500	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Naphthalene	0.27	mg/kg	0.1	284845.8	210624.4	90.1	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Cyanide (Free)	< 0.5	mg/kg	0.5	284845.8	210624.4	373	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Total Phenols	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Total Of 16 PAH's	< 2.0	mg/kg	2	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284845.8	210624.4	27900	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284845.8	210624.4	2210	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284845.8	210624.4	12300	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284845.8	210624.4	41300	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284845.8	210624.4	28400	NO	NO	0	POINT (284845.78 210624.37)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH116	237.25	0.2	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284845.8	210624.4	28400	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284845.8	210624.4	4490	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284845.8	210624.4	10400	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284845.8	210624.4	1370	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284845.8	210624.4	7900	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284845.8	210624.4	34000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284845.8	210624.4	3620000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284845.8	210624.4	3620000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284845.8	210624.4	12.5	NO	NO	0.08	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Ethylbenzene	< 0.001	mg/kg	0.001	284845.8	210624.4	7660	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Toluene	< 0.001	mg/kg	0.001	284845.8	210624.4	27900	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Benzene	< 0.001	mg/kg	0.001	284845.8	210624.4	12.5	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	o-Xylene	< 0.001	mg/kg	0.001	284845.8	210624.4	3030	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	m & p-Xylene	< 0.001	mg/kg	0.001	284845.8	210624.4	2720	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	pH	7.1	-	4	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	pH	8.9	-	4	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Loss On Ignition	16	%	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Organic Matter	28	%	0.4	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Total Organic Carbon	11	%	0.2	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Dry Mass Of Test Portion	0.175	kg	0	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Anthracene	< 0.1	mg/kg	0.1	284845.8	210624.4	535000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Pyrene	0.12	mg/kg	0.1	284845.8	210624.4	54100	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Total PCBs (7 Congeners)	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284845.8	210624.4	49.1	NO	NO	0.01	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Fluoranthene	0.17	mg/kg	0.1	284845.8	210624.4	72200	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Acenaphthylene	< 0.1	mg/kg	0.1	284845.8	210624.4	83600	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Chrysene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284845.8	210624.4	76.3	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Cyanide (Total)	< 0.5	mg/kg	0.5	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Lead	24	mg/kg	0.5	284845.8	210624.4	2310	NO	NO	0.01	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Mercury	0.11	mg/kg	0.05	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Nickel	25	mg/kg	0.5	284845.8	210624.4	1770	NO	NO	0.01	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Arsenic	5.5	mg/kg	0.5	284845.8	210624.4	635	NO	NO	0.01	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Boron (Hot Water Soluble)	4.9	mg/kg	0.4	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Cadmium	0.11	mg/kg	0.1	284845.8	210624.4	410	NO	NO	0	POINT (284845.78 210624.37)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH116	237.25	0.9	Chromium	3.4	mg/kg	0.5	284845.8	210624.4	208000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Copper	41	mg/kg	0.5	284845.8	210624.4	106000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Vanadium	4.1	mg/kg	0.5	284845.8	210624.4	7490	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Zinc	56	mg/kg	0.5	284845.8	210624.4	1100000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Selenium	1.7	mg/kg	0.25	284845.8	210624.4	13000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Acenaphthene	< 0.1	mg/kg	0.1	284845.8	210624.4	83600	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Phenanthrene	0.18	mg/kg	0.1	284845.8	210624.4	535000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Fluorene	< 0.1	mg/kg	0.1	284845.8	210624.4	66500	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Naphthalene	0.23	mg/kg	0.1	284845.8	210624.4	90.1	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Cyanide (Free)	< 0.5	mg/kg	0.5	284845.8	210624.4	373	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Total Phenols	< 0.1	mg/kg	0.1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Total Of 16 PAH's	< 2.0	mg/kg	2	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Total (Of 17) PAH's	< 2.0	mg/kg	2	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Total BTEX	< 0.01	mg/kg	0.01	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284845.8	210624.4	27900	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284845.8	210624.4	2210	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284845.8	210624.4	12300	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284845.8	210624.4	41300	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284845.8	210624.4	28400	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284845.8	210624.4	28400	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	TPH Total WAC	< 10.0	mg/kg	10	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284845.8	210624.4	4490	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284845.8	210624.4	10400	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284845.8	210624.4	1370	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284845.8	210624.4	7900	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284845.8	210624.4	34000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284845.8	210624.4	3620000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284845.8	210624.4	3620000	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284845.8	210624.4	12.5	NO	NO	0.08	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Acid Neutralisation Capacity	0.005	mol/kg	0	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Ethylbenzene	< 0.001	mg/kg	0.001	284845.8	210624.4	7660	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Toluene	< 0.001	mg/kg	0.001	284845.8	210624.4	27900	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Benzene	< 0.001	mg/kg	0.001	284845.8	210624.4	12.5	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	o-Xylene	< 0.001	mg/kg	0.001	284845.8	210624.4	3030	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	m & p-Xylene	< 0.001	mg/kg	0.001	284845.8	210624.4	2720	NO	NO	0	POINT (284845.78 210624.37)
S1-BH121	230.88	1.2	pH	6.8	-	4	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.2	Organic Matter	28	%	0.4	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.2	Anthracene	< 0.1	mg/kg	0.1	284475.7	210703	535000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Pyrene	< 0.1	mg/kg	0.1	284475.7	210703	54100	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284475.7	210703	49.1	NO	NO	0.01	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH121	230.88	1.2	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.2	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.2	Fluoranthene	< 0.1	mg/kg	0.1	284475.7	210703	72200	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.2	Acenaphthylene	< 0.1	mg/kg	0.1	284475.7	210703	83600	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Chrysene	< 0.1	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.2	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284475.7	210703	76.3	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.2	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.2	Cyanide (Total)	< 0.5	mg/kg	0.5	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.2	Lead	46	mg/kg	0.5	284475.7	210703	2310	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Mercury	0.18	mg/kg	0.05	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.2	Nickel	21	mg/kg	0.5	284475.7	210703	1770	NO	NO	0.01	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Arsenic	10	mg/kg	0.5	284475.7	210703	635	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.2	Cadmium	< 0.1	mg/kg	0.1	284475.7	210703	410	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Chromium	3.9	mg/kg	0.5	284475.7	210703	208000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Copper	73	mg/kg	0.5	284475.7	210703	106000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Vanadium	5.8	mg/kg	0.5	284475.7	210703	7490	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Zinc	52	mg/kg	0.5	284475.7	210703	1100000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Selenium	2.4	mg/kg	0.25	284475.7	210703	13000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Acenaphthene	< 0.1	mg/kg	0.1	284475.7	210703	83600	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Phenanthrene	< 0.1	mg/kg	0.1	284475.7	210703	535000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Fluorene	< 0.1	mg/kg	0.1	284475.7	210703	66500	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Naphthalene	0.39	mg/kg	0.1	284475.7	210703	90.1	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Cyanide (Free)	< 0.5	mg/kg	0.5	284475.7	210703	373	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Total Phenols	< 0.1	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.2	Total Of 16 PAH's	< 2.0	mg/kg	2	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.2	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284475.7	210703	27900	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284475.7	210703	2210	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284475.7	210703	12300	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284475.7	210703	41300	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284475.7	210703	28400	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284475.7	210703	28400	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.2	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284475.7	210703	4490	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284475.7	210703	10400	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284475.7	210703	1370	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284475.7	210703	7900	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284475.7	210703	34000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284475.7	210703	3620000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284475.7	210703	3620000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.2	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284475.7	210703	12.5	NO	NO	0.08	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.2	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284475.7	210703		NO	NO		POINT (284475.72 210703)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH121	230.88	1.2	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.2	Ethylbenzene	< 0.001	mg/kg	0.001	284475.7	210703	7660	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Toluene	< 0.001	mg/kg	0.001	284475.7	210703	27900	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	Benzene	< 0.001	mg/kg	0.001	284475.7	210703	12.5	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	o-Xylene	< 0.001	mg/kg	0.001	284475.7	210703	3030	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.2	m & p-Xylene	< 0.001	mg/kg	0.001	284475.7	210703	2720	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	pH	6.7	-	4	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.8	Organic Matter	83	%	0.4	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.8	Anthracene	< 0.1	mg/kg	0.1	284475.7	210703	535000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Pyrene	0.2	mg/kg	0.1	284475.7	210703	54100	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284475.7	210703	49.1	NO	NO	0.01	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.8	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.8	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.8	Fluoranthene	0.27	mg/kg	0.1	284475.7	210703	72200	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.8	Acenaphthylene	< 0.1	mg/kg	0.1	284475.7	210703	83600	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Chrysene	< 0.1	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.8	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284475.7	210703	76.3	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.8	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.8	Cyanide (Total)	< 0.5	mg/kg	0.5	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.8	Lead	58	mg/kg	0.5	284475.7	210703	2310	NO	NO	0.03	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Mercury	0.05	mg/kg	0.05	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.8	Nickel	9.2	mg/kg	0.5	284475.7	210703	1770	NO	NO	0.01	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Arsenic	14	mg/kg	0.5	284475.7	210703	635	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Boron (Hot Water Soluble)	0.73	mg/kg	0.4	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.8	Cadmium	1.2	mg/kg	0.1	284475.7	210703	410	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Chromium	2.7	mg/kg	0.5	284475.7	210703	208000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Copper	29	mg/kg	0.5	284475.7	210703	106000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Vanadium	2.7	mg/kg	0.5	284475.7	210703	7490	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Zinc	110	mg/kg	0.5	284475.7	210703	1100000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Selenium	1.3	mg/kg	0.25	284475.7	210703	13000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Acenaphthene	< 0.1	mg/kg	0.1	284475.7	210703	83600	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Phenanthrene	0.51	mg/kg	0.1	284475.7	210703	535000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Fluorene	< 0.1	mg/kg	0.1	284475.7	210703	66500	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Naphthalene	0.5	mg/kg	0.1	284475.7	210703	90.1	NO	NO	0.01	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Cyanide (Free)	< 0.5	mg/kg	0.5	284475.7	210703	373	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Total Phenols	< 0.1	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.8	Total Of 16 PAH's	< 2.0	mg/kg	2	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.8	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284475.7	210703	27900	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284475.7	210703	2210	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284475.7	210703	12300	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284475.7	210703	41300	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284475.7	210703	28400	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284475.7	210703	28400	NO	NO	0	POINT (284475.72 210703)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH121	230.88	1.8	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.8	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284475.7	210703	4490	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284475.7	210703	10400	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284475.7	210703	1370	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284475.7	210703	7900	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284475.7	210703	34000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284475.7	210703	3620000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284475.7	210703	3620000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.8	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284475.7	210703	12.5	NO	NO	0.08	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.8	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.8	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	1.8	Ethylbenzene	< 0.001	mg/kg	0.001	284475.7	210703	7660	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Toluene	0.0071	mg/kg	0.001	284475.7	210703	27900	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	Benzene	< 0.001	mg/kg	0.001	284475.7	210703	12.5	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	o-Xylene	< 0.001	mg/kg	0.001	284475.7	210703	3030	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	1.8	m & p-Xylene	< 0.001	mg/kg	0.001	284475.7	210703	2720	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	pH	8.1	-	4	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Total Asbestos		%	0	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Organic Matter	100	%	0.4	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Asbestos by Gravimetry		%	0	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Anthracene	0.28	mg/kg	0.1	284475.7	210703	535000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Pyrene	1.2	mg/kg	0.1	284475.7	210703	54100	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284475.7	210703	49.1	NO	NO	0.01	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Benzo[g,h,i]perylene	1.1	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Indeno(1,2,3-c,d)Pyrene	1.1	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Benzo[b]fluoranthene	1.7	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Fluoranthene	1.7	mg/kg	0.1	284475.7	210703	72200	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Benzo[k]fluoranthene	0.77	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Acenaphthylene	< 0.1	mg/kg	0.1	284475.7	210703	83600	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Chrysene	1.4	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Benzo[a]pyrene	1.3	mg/kg	0.1	284475.7	210703	76.3	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Dibenz(a,h)Anthracene	0.6	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Benzo[a]anthracene	1.2	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Cyanide (Total)	< 0.5	mg/kg	0.5	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Lead	30	mg/kg	0.5	284475.7	210703	2310	NO	NO	0.01	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Mercury	0.07	mg/kg	0.05	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Nickel	31	mg/kg	0.5	284475.7	210703	1770	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Arsenic	11	mg/kg	0.5	284475.7	210703	635	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Cadmium	0.29	mg/kg	0.1	284475.7	210703	410	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Chromium	10	mg/kg	0.5	284475.7	210703	208000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Copper	48	mg/kg	0.5	284475.7	210703	106000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Vanadium	12	mg/kg	0.5	284475.7	210703	7490	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Zinc	73	mg/kg	0.5	284475.7	210703	1100000	NO	NO	0	POINT (284475.72 210703)

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Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH121	230.88	0.5	Selenium	1.1	mg/kg	0.25	284475.7	210703	13000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Acenaphthene	< 0.1	mg/kg	0.1	284475.7	210703	83600	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Phenanthrene	2.5	mg/kg	0.1	284475.7	210703	535000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Fluorene	0.29	mg/kg	0.1	284475.7	210703	66500	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Naphthalene	0.74	mg/kg	0.1	284475.7	210703	90.1	NO	NO	0.01	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Cyanide (Free)	< 0.5	mg/kg	0.5	284475.7	210703	373	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Total Phenols	< 0.1	mg/kg	0.1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Total Of 16 PAH's	16	mg/kg	2	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284475.7	210703	27900	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284475.7	210703	2210	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284475.7	210703	12300	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284475.7	210703	41300	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284475.7	210703	28400	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284475.7	210703	28400	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284475.7	210703	4490	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284475.7	210703	10400	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284475.7	210703	1370	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284475.7	210703	7900	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284475.7	210703	34000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284475.7	210703	3620000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284475.7	210703	3620000	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284475.7	210703	12.5	NO	NO	0.08	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Ethylbenzene	< 0.001	mg/kg	0.001	284475.7	210703	7660	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Toluene	< 0.001	mg/kg	0.001	284475.7	210703	27900	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Benzene	< 0.001	mg/kg	0.001	284475.7	210703	12.5	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	o-Xylene	< 0.001	mg/kg	0.001	284475.7	210703	3030	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	m & p-Xylene	< 0.001	mg/kg	0.001	284475.7	210703	2720	NO	NO	0	POINT (284475.72 210703)
S1-BH122	230.82	0.2	pH	7.5	-	4	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Organic Matter	11	%	0.4	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Anthracene	< 0.1	mg/kg	0.1	284632.9	210701.3	535000	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Pyrene	< 0.1	mg/kg	0.1	284632.9	210701.3	54100	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284632.9	210701.3	49.1	NO	NO	0.01	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Fluoranthene	< 0.1	mg/kg	0.1	284632.9	210701.3	72200	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Acenaphthylene	< 0.1	mg/kg	0.1	284632.9	210701.3	83600	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Chrysene	< 0.1	mg/kg	0.1	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284632.9	210701.3	76.3	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH122	230.82	0.2	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Cyanide (Total)	< 0.5	mg/kg	0.5	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Lead	20	mg/kg	0.5	284632.9	210701.3	2310	NO	NO	0.01	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Mercury	< 0.05	mg/kg	0.05	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Nickel	36	mg/kg	0.5	284632.9	210701.3	1770	NO	NO	0.02	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Arsenic	6.7	mg/kg	0.5	284632.9	210701.3	635	NO	NO	0.01	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Cadmium	< 0.1	mg/kg	0.1	284632.9	210701.3	410	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Chromium	4.2	mg/kg	0.5	284632.9	210701.3	208000	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Copper	29	mg/kg	0.5	284632.9	210701.3	106000	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Vanadium	6.8	mg/kg	0.5	284632.9	210701.3	7490	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Zinc	90	mg/kg	0.5	284632.9	210701.3	1100000	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Selenium	0.48	mg/kg	0.25	284632.9	210701.3	13000	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Acenaphthene	< 0.1	mg/kg	0.1	284632.9	210701.3	83600	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Phenanthrene	< 0.1	mg/kg	0.1	284632.9	210701.3	535000	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Fluorene	< 0.1	mg/kg	0.1	284632.9	210701.3	66500	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Naphthalene	0.41	mg/kg	0.1	284632.9	210701.3	90.1	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Cyanide (Free)	< 0.5	mg/kg	0.5	284632.9	210701.3	373	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Total Phenols	< 0.1	mg/kg	0.1	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Total Of 16 PAH's	< 2.0	mg/kg	2	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284632.9	210701.3	27900	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284632.9	210701.3	2210	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284632.9	210701.3	12300	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284632.9	210701.3	41300	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284632.9	210701.3	28400	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284632.9	210701.3	28400	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284632.9	210701.3	4490	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284632.9	210701.3	10400	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284632.9	210701.3	1370	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284632.9	210701.3	7900	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284632.9	210701.3	34000	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284632.9	210701.3	3620000	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284632.9	210701.3	3620000	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284632.9	210701.3	12.5	NO	NO	0.08	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Ethylbenzene	< 0.001	mg/kg	0.001	284632.9	210701.3	7660	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Toluene	< 0.001	mg/kg	0.001	284632.9	210701.3	27900	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	Benzene	< 0.001	mg/kg	0.001	284632.9	210701.3	12.5	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	o-Xylene	< 0.001	mg/kg	0.001	284632.9	210701.3	3030	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	m & p-Xylene	< 0.001	mg/kg	0.001	284632.9	210701.3	2720	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	pH	5	-	4	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	2	Organic Matter	98	%	0.4	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH122	230.82	2	Anthracene	< 0.1	mg/kg	0.1	284632.9	210701.3	535000	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Pyrene	< 0.1	mg/kg	0.1	284632.9	210701.3	54100	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284632.9	210701.3	49.1	NO	NO	0.01	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	2	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	2	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	2	Fluoranthene	< 0.1	mg/kg	0.1	284632.9	210701.3	72200	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	2	Acenaphthylene	< 0.1	mg/kg	0.1	284632.9	210701.3	83600	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Chrysene	< 0.1	mg/kg	0.1	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	2	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284632.9	210701.3	76.3	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	2	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	2	Cyanide (Total)	0.9	mg/kg	0.5	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	2	Lead	0.99	mg/kg	0.5	284632.9	210701.3	2310	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Mercury	< 0.05	mg/kg	0.05	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	2	Nickel	4.5	mg/kg	0.5	284632.9	210701.3	1770	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Arsenic	< 0.5	mg/kg	0.5	284632.9	210701.3	635	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	2	Cadmium	< 0.1	mg/kg	0.1	284632.9	210701.3	410	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Chromium	1.4	mg/kg	0.5	284632.9	210701.3	208000	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Copper	3.2	mg/kg	0.5	284632.9	210701.3	106000	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Vanadium	1	mg/kg	0.5	284632.9	210701.3	7490	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Zinc	4.8	mg/kg	0.5	284632.9	210701.3	1100000	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Selenium	0.37	mg/kg	0.25	284632.9	210701.3	13000	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Acenaphthene	< 0.1	mg/kg	0.1	284632.9	210701.3	83600	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Phenanthrene	< 0.1	mg/kg	0.1	284632.9	210701.3	535000	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Fluorene	< 0.1	mg/kg	0.1	284632.9	210701.3	66500	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Naphthalene	< 0.1	mg/kg	0.1	284632.9	210701.3	90.1	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Cyanide (Free)	0.5	mg/kg	0.5	284632.9	210701.3	373	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Total Phenols	< 0.1	mg/kg	0.1	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	2	Total Of 16 PAH's	< 2.0	mg/kg	2	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	2	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284632.9	210701.3	27900	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284632.9	210701.3	2210	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284632.9	210701.3	12300	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284632.9	210701.3	41300	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284632.9	210701.3	28400	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284632.9	210701.3	28400	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	2	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284632.9	210701.3	4490	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284632.9	210701.3	10400	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284632.9	210701.3	1370	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284632.9	210701.3	7900	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284632.9	210701.3	34000	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284632.9	210701.3	3620000	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284632.9	210701.3	3620000	NO	NO	0	POINT (284632.9 210701.3)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH122	230.82	2	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	2	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284632.9	210701.3	12.5	NO	NO	0.08	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	2	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	2	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	2	Ethylbenzene	< 0.001	mg/kg	0.001	284632.9	210701.3	7660	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Toluene	< 0.001	mg/kg	0.001	284632.9	210701.3	27900	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	Benzene	< 0.001	mg/kg	0.001	284632.9	210701.3	12.5	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	o-Xylene	< 0.001	mg/kg	0.001	284632.9	210701.3	3030	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	2	m & p-Xylene	< 0.001	mg/kg	0.001	284632.9	210701.3	2720	NO	NO	0	POINT (284632.9 210701.3)
S1-TP111	231.25	0.2	pH	7.2	-	4	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Organic Matter	3.1	%	0.4	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Anthracene	< 0.1	mg/kg	0.1	284432.8	210649.5	535000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Pyrene	0.15	mg/kg	0.1	284432.8	210649.5	54100	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284432.8	210649.5	49.1	NO	NO	0.01	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Fluoranthene	0.13	mg/kg	0.1	284432.8	210649.5	72200	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Acenaphthylene	< 0.1	mg/kg	0.1	284432.8	210649.5	83600	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Chrysene	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284432.8	210649.5	76.3	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Cyanide (Total)	< 0.5	mg/kg	0.5	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Lead	33	mg/kg	0.5	284432.8	210649.5	2310	NO	NO	0.01	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Mercury	0.05	mg/kg	0.05	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Nickel	7.4	mg/kg	0.5	284432.8	210649.5	1770	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Arsenic	27	mg/kg	0.5	284432.8	210649.5	635	NO	NO	0.04	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Cadmium	0.27	mg/kg	0.1	284432.8	210649.5	410	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Chromium	8.7	mg/kg	0.5	284432.8	210649.5	208000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Copper	18	mg/kg	0.5	284432.8	210649.5	106000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Vanadium	16	mg/kg	0.5	284432.8	210649.5	7490	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Zinc	22	mg/kg	0.5	284432.8	210649.5	1100000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Selenium	1.1	mg/kg	0.25	284432.8	210649.5	13000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Acenaphthene	< 0.1	mg/kg	0.1	284432.8	210649.5	83600	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Phenanthrene	0.25	mg/kg	0.1	284432.8	210649.5	535000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Fluorene	< 0.1	mg/kg	0.1	284432.8	210649.5	66500	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Naphthalene	0.68	mg/kg	0.1	284432.8	210649.5	90.1	NO	NO	0.01	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Cyanide (Free)	< 0.5	mg/kg	0.5	284432.8	210649.5	373	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Total Phenols	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Total Of 16 PAH's	< 2.0	mg/kg	2	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284432.8	210649.5	27900	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284432.8	210649.5	2210	NO	NO	0	POINT (284432.79 210649.48)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-TP111	231.25	0.2	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284432.8	210649.5	12300	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284432.8	210649.5	41300	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284432.8	210649.5	28400	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284432.8	210649.5	28400	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284432.8	210649.5	4490	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284432.8	210649.5	10400	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284432.8	210649.5	1370	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284432.8	210649.5	7900	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284432.8	210649.5	34000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284432.8	210649.5	3620000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284432.8	210649.5	3620000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284432.8	210649.5	12.5	NO	NO	0.08	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Ethylbenzene	< 0.001	mg/kg	0.001	284432.8	210649.5	7660	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Toluene	< 0.001	mg/kg	0.001	284432.8	210649.5	27900	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	Benzene	< 0.001	mg/kg	0.001	284432.8	210649.5	12.5	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	o-Xylene	< 0.001	mg/kg	0.001	284432.8	210649.5	3030	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	m & p-Xylene	< 0.001	mg/kg	0.001	284432.8	210649.5	2720	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	pH	6	-	4	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Organic Matter	44	%	0.4	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Anthracene	< 0.1	mg/kg	0.1	284432.8	210649.5	535000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Pyrene	0.12	mg/kg	0.1	284432.8	210649.5	54100	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284432.8	210649.5	49.1	NO	NO	0.01	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Fluoranthene	0.12	mg/kg	0.1	284432.8	210649.5	72200	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Acenaphthylene	< 0.1	mg/kg	0.1	284432.8	210649.5	83600	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Chrysene	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284432.8	210649.5	76.3	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Cyanide (Total)	< 0.5	mg/kg	0.5	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Lead	22	mg/kg	0.5	284432.8	210649.5	2310	NO	NO	0.01	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Mercury	0.07	mg/kg	0.05	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Nickel	19	mg/kg	0.5	284432.8	210649.5	1770	NO	NO	0.01	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Arsenic	9.5	mg/kg	0.5	284432.8	210649.5	635	NO	NO	0.01	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Cadmium	0.12	mg/kg	0.1	284432.8	210649.5	410	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Chromium	9.7	mg/kg	0.5	284432.8	210649.5	208000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Copper	29	mg/kg	0.5	284432.8	210649.5	106000	NO	NO	0	POINT (284432.79 210649.48)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-TP111	231.25	0.4	Vanadium	12	mg/kg	0.5	284432.8	210649.5	7490	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Zinc	55	mg/kg	0.5	284432.8	210649.5	1100000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Selenium	0.93	mg/kg	0.25	284432.8	210649.5	13000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Acenaphthene	< 0.1	mg/kg	0.1	284432.8	210649.5	83600	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Phenanthrene	0.21	mg/kg	0.1	284432.8	210649.5	535000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Fluorene	< 0.1	mg/kg	0.1	284432.8	210649.5	66500	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Naphthalene	0.67	mg/kg	0.1	284432.8	210649.5	90.1	NO	NO	0.01	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Cyanide (Free)	< 0.5	mg/kg	0.5	284432.8	210649.5	373	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Total Phenols	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Total Of 16 PAH's	< 2.0	mg/kg	2	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284432.8	210649.5	27900	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284432.8	210649.5	2210	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284432.8	210649.5	12300	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284432.8	210649.5	41300	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284432.8	210649.5	28400	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284432.8	210649.5	28400	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284432.8	210649.5	4490	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284432.8	210649.5	10400	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284432.8	210649.5	1370	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284432.8	210649.5	7900	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284432.8	210649.5	34000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284432.8	210649.5	3620000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284432.8	210649.5	3620000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284432.8	210649.5	12.5	NO	NO	0.08	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Ethylbenzene	< 0.001	mg/kg	0.001	284432.8	210649.5	7660	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Toluene	< 0.001	mg/kg	0.001	284432.8	210649.5	27900	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Benzene	< 0.001	mg/kg	0.001	284432.8	210649.5	12.5	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	o-Xylene	< 0.001	mg/kg	0.001	284432.8	210649.5	3030	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	m & p-Xylene	< 0.001	mg/kg	0.001	284432.8	210649.5	2720	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	pH	5.5	-	4	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Organic Matter	3.1	%	0.4	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Anthracene	< 0.1	mg/kg	0.1	284432.8	210649.5	535000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Pyrene	< 0.1	mg/kg	0.1	284432.8	210649.5	54100	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284432.8	210649.5	49.1	NO	NO	0.01	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Fluoranthene	< 0.1	mg/kg	0.1	284432.8	210649.5	72200	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Acenaphthylene	< 0.1	mg/kg	0.1	284432.8	210649.5	83600	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Chrysene	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-TP111	231.25	0.9	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284432.8	210649.5	76.3	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Cyanide (Total)	< 0.5	mg/kg	0.5	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Lead	19	mg/kg	0.5	284432.8	210649.5	2310	NO	NO	0.01	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Mercury	< 0.05	mg/kg	0.05	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Nickel	23	mg/kg	0.5	284432.8	210649.5	1770	NO	NO	0.01	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Arsenic	6.8	mg/kg	0.5	284432.8	210649.5	635	NO	NO	0.01	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Cadmium	< 0.1	mg/kg	0.1	284432.8	210649.5	410	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Chromium	10	mg/kg	0.5	284432.8	210649.5	208000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Copper	30	mg/kg	0.5	284432.8	210649.5	106000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Vanadium	12	mg/kg	0.5	284432.8	210649.5	7490	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Zinc	64	mg/kg	0.5	284432.8	210649.5	1100000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Selenium	0.93	mg/kg	0.25	284432.8	210649.5	13000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Acenaphthene	< 0.1	mg/kg	0.1	284432.8	210649.5	83600	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Phenanthrene	< 0.1	mg/kg	0.1	284432.8	210649.5	535000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Fluorene	< 0.1	mg/kg	0.1	284432.8	210649.5	66500	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Naphthalene	0.47	mg/kg	0.1	284432.8	210649.5	90.1	NO	NO	0.01	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Cyanide (Free)	< 0.5	mg/kg	0.5	284432.8	210649.5	373	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Total Phenols	< 0.1	mg/kg	0.1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Total Of 16 PAH's	< 2.0	mg/kg	2	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284432.8	210649.5	27900	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284432.8	210649.5	2210	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284432.8	210649.5	12300	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284432.8	210649.5	41300	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284432.8	210649.5	28400	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284432.8	210649.5	28400	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284432.8	210649.5	4490	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284432.8	210649.5	10400	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284432.8	210649.5	1370	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284432.8	210649.5	7900	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284432.8	210649.5	34000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284432.8	210649.5	3620000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284432.8	210649.5	3620000	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284432.8	210649.5	12.5	NO	NO	0.08	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Ethylbenzene	< 0.001	mg/kg	0.001	284432.8	210649.5	7660	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Toluene	< 0.001	mg/kg	0.001	284432.8	210649.5	27900	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	Benzene	< 0.001	mg/kg	0.001	284432.8	210649.5	12.5	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	o-Xylene	< 0.001	mg/kg	0.001	284432.8	210649.5	3030	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	m & p-Xylene	< 0.001	mg/kg	0.001	284432.8	210649.5	2720	NO	NO	0	POINT (284432.79 210649.48)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-TP112	232.16	1.5	pH	7.7	-	4	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Organic Matter	100	%	0.4	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Anthracene	< 0.1	mg/kg	0.1	284486.6	210626.2	535000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Pyrene	0.43	mg/kg	0.1	284486.6	210626.2	54100	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284486.6	210626.2	49.1	NO	NO	0.01	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Benzo[g,h,i]perylene	0.16	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Indeno(1,2,3-c,d)Pyrene	0.15	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Benzo[b]fluoranthene	0.3	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Fluoranthene	0.53	mg/kg	0.1	284486.6	210626.2	72200	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Benzo[k]fluoranthene	0.11	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Acenaphthylene	< 0.1	mg/kg	0.1	284486.6	210626.2	83600	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Chrysene	0.2	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Benzo[a]pyrene	0.15	mg/kg	0.1	284486.6	210626.2	76.3	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Benzo[a]anthracene	0.19	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Cyanide (Total)	5.4	mg/kg	0.5	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Lead	32	mg/kg	0.5	284486.6	210626.2	2310	NO	NO	0.01	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Mercury	0.35	mg/kg	0.05	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Nickel	20	mg/kg	0.5	284486.6	210626.2	1770	NO	NO	0.01	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Arsenic	7.5	mg/kg	0.5	284486.6	210626.2	635	NO	NO	0.01	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Cadmium	0.32	mg/kg	0.1	284486.6	210626.2	410	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Chromium	3.9	mg/kg	0.5	284486.6	210626.2	208000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Copper	62	mg/kg	0.5	284486.6	210626.2	106000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Vanadium	9.1	mg/kg	0.5	284486.6	210626.2	7490	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Zinc	58	mg/kg	0.5	284486.6	210626.2	1100000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Selenium	1.7	mg/kg	0.25	284486.6	210626.2	13000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Acenaphthene	< 0.1	mg/kg	0.1	284486.6	210626.2	83600	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Phenanthrene	0.42	mg/kg	0.1	284486.6	210626.2	535000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Fluorene	< 0.1	mg/kg	0.1	284486.6	210626.2	66500	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Naphthalene	0.35	mg/kg	0.1	284486.6	210626.2	90.1	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Cyanide (Free)	5.4	mg/kg	0.5	284486.6	210626.2	373	NO	NO	0.01	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Total Phenols	< 0.1	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Total Of 16 PAH's	3	mg/kg	2	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284486.6	210626.2	27900	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284486.6	210626.2	2210	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284486.6	210626.2	12300	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284486.6	210626.2	41300	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284486.6	210626.2	28400	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284486.6	210626.2	28400	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284486.6	210626.2	4490	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284486.6	210626.2	10400	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284486.6	210626.2	1370	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284486.6	210626.2	7900	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284486.6	210626.2	34000	NO	NO	0	POINT (284486.56 210626.19)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-TP112	232.16	1.5	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284486.6	210626.2	3620000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284486.6	210626.2	3620000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284486.6	210626.2	12.5	NO	NO	0.08	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Ethylbenzene	< 0.001	mg/kg	0.001	284486.6	210626.2	7660	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Toluene	< 0.001	mg/kg	0.001	284486.6	210626.2	27900	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	Benzene	< 0.001	mg/kg	0.001	284486.6	210626.2	12.5	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	o-Xylene	< 0.001	mg/kg	0.001	284486.6	210626.2	3030	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	1.5	m & p-Xylene	< 0.001	mg/kg	0.001	284486.6	210626.2	2720	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	pH	8	-	4	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Organic Matter	55	%	0.4	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Anthracene	0.42	mg/kg	0.1	284486.6	210626.2	535000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Pyrene	1.9	mg/kg	0.1	284486.6	210626.2	54100	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284486.6	210626.2	49.1	NO	NO	0.01	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Benzo[g,h,i]perylene	0.95	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Indeno(1,2,3-c,d)Pyrene	1.1	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Benzo[b]fluoranthene	2.6	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Fluoranthene	2.8	mg/kg	0.1	284486.6	210626.2	72200	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Benzo[k]fluoranthene	0.99	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Acenaphthylene	0.12	mg/kg	0.1	284486.6	210626.2	83600	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Chrysene	1.8	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Benzo[a]pyrene	1.7	mg/kg	0.1	284486.6	210626.2	76.3	NO	NO	0.02	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Dibenz(a,h)Anthracene	0.18	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Benzo[a]anthracene	1.3	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Cyanide (Total)	< 0.5	mg/kg	0.5	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Lead	32	mg/kg	0.5	284486.6	210626.2	2310	NO	NO	0.01	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Mercury	< 0.05	mg/kg	0.05	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Nickel	43	mg/kg	0.5	284486.6	210626.2	1770	NO	NO	0.02	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Arsenic	18	mg/kg	0.5	284486.6	210626.2	635	NO	NO	0.03	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Cadmium	0.2	mg/kg	0.1	284486.6	210626.2	410	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Chromium	11	mg/kg	0.5	284486.6	210626.2	208000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Copper	120	mg/kg	0.5	284486.6	210626.2	106000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Vanadium	30	mg/kg	0.5	284486.6	210626.2	7490	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Zinc	55	mg/kg	0.5	284486.6	210626.2	1100000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Selenium	1.6	mg/kg	0.25	284486.6	210626.2	13000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Acenaphthene	0.24	mg/kg	0.1	284486.6	210626.2	83600	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Phenanthrene	2	mg/kg	0.1	284486.6	210626.2	535000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Fluorene	0.19	mg/kg	0.1	284486.6	210626.2	66500	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Naphthalene	1.8	mg/kg	0.1	284486.6	210626.2	90.1	NO	NO	0.02	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Cyanide (Free)	< 0.5	mg/kg	0.5	284486.6	210626.2	373	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Total Phenols	< 0.1	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Total Of 16 PAH's	20	mg/kg	2	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-TP112	232.16	0.2	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284486.6	210626.2	27900	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284486.6	210626.2	2210	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284486.6	210626.2	12300	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284486.6	210626.2	41300	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284486.6	210626.2	28400	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Aromatic TPH >C21-C35	200	mg/kg	1	284486.6	210626.2	28400	NO	NO	0.01	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284486.6	210626.2	4490	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284486.6	210626.2	10400	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284486.6	210626.2	1370	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284486.6	210626.2	7900	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284486.6	210626.2	34000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284486.6	210626.2	3620000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284486.6	210626.2	3620000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284486.6	210626.2	12.5	NO	NO	0.08	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Total Petroleum Hydrocarbor	200	mg/kg	10	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Total Aromatic Hydrocarbons	200	mg/kg	5	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Ethylbenzene	< 0.001	mg/kg	0.001	284486.6	210626.2	7660	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Toluene	< 0.001	mg/kg	0.001	284486.6	210626.2	27900	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Benzene	< 0.001	mg/kg	0.001	284486.6	210626.2	12.5	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	o-Xylene	< 0.001	mg/kg	0.001	284486.6	210626.2	3030	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	m & p-Xylene	< 0.001	mg/kg	0.001	284486.6	210626.2	2720	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	pH	7.3	-	4	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	pH	7.2	-	4	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Loss On Ignition	17	%	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Organic Matter	71	%	0.4	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Total Organic Carbon	39	%	0.2	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Dry Mass Of Test Portion	0.175	kg	0	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Anthracene	0.33	mg/kg	0.1	284486.6	210626.2	535000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Pyrene	1.6	mg/kg	0.1	284486.6	210626.2	54100	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Total PCBs (7 Congeners)	< 0.1	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284486.6	210626.2	49.1	NO	NO	0.01	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Benzo[g,h,i]perylene	0.47	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Indeno(1,2,3-c,d)Pyrene	0.52	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Benzo[b]fluoranthene	1.2	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Fluoranthene	2.1	mg/kg	0.1	284486.6	210626.2	72200	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Benzo[k]fluoranthene	0.44	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Acenaphthylene	< 0.1	mg/kg	0.1	284486.6	210626.2	83600	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Chrysene	0.83	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Benzo[a]pyrene	0.86	mg/kg	0.1	284486.6	210626.2	76.3	NO	NO	0.01	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Dibenz(a,h)Anthracene	0.12	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Benzo[a]anthracene	0.85	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Cyanide (Total)	< 0.5	mg/kg	0.5	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Lead	36	mg/kg	0.5	284486.6	210626.2	2310	NO	NO	0.02	POINT (284486.56 210626.19)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-TP112	232.16	0.9	Mercury	0.17	mg/kg	0.05	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Nickel	36	mg/kg	0.5	284486.6	210626.2	1770	NO	NO	0.02	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Arsenic	23	mg/kg	0.5	284486.6	210626.2	635	NO	NO	0.04	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Cadmium	0.13	mg/kg	0.1	284486.6	210626.2	410	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Chromium	1.5	mg/kg	0.5	284486.6	210626.2	208000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Copper	51	mg/kg	0.5	284486.6	210626.2	106000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Vanadium	2.8	mg/kg	0.5	284486.6	210626.2	7490	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Zinc	45	mg/kg	0.5	284486.6	210626.2	1100000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Selenium	2.3	mg/kg	0.25	284486.6	210626.2	13000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Acenaphthene	0.15	mg/kg	0.1	284486.6	210626.2	83600	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Phenanthrene	1.4	mg/kg	0.1	284486.6	210626.2	535000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Fluorene	0.15	mg/kg	0.1	284486.6	210626.2	66500	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Naphthalene	0.99	mg/kg	0.1	284486.6	210626.2	90.1	NO	NO	0.01	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Cyanide (Free)	< 0.5	mg/kg	0.5	284486.6	210626.2	373	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Total Phenols	< 0.1	mg/kg	0.1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Total Of 16 PAH's	12	mg/kg	2	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Total (Of 17) PAH's	< 2.0	mg/kg	2	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Total BTEX	< 0.01	mg/kg	0.01	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284486.6	210626.2	27900	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284486.6	210626.2	2210	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284486.6	210626.2	12300	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284486.6	210626.2	41300	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284486.6	210626.2	28400	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284486.6	210626.2	28400	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	TPH Total WAC	< 10.0	mg/kg	10	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284486.6	210626.2	4490	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284486.6	210626.2	10400	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284486.6	210626.2	1370	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284486.6	210626.2	7900	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284486.6	210626.2	34000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284486.6	210626.2	3620000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284486.6	210626.2	3620000	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284486.6	210626.2	12.5	NO	NO	0.08	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Acid Neutralisation Capacity	< 0.002	mol/kg	0	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Ethylbenzene	< 0.001	mg/kg	0.001	284486.6	210626.2	7660	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Toluene	< 0.001	mg/kg	0.001	284486.6	210626.2	27900	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Benzene	< 0.001	mg/kg	0.001	284486.6	210626.2	12.5	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	o-Xylene	< 0.001	mg/kg	0.001	284486.6	210626.2	3030	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	m & p-Xylene	< 0.001	mg/kg	0.001	284486.6	210626.2	2720	NO	NO	0	POINT (284486.56 210626.19)
S1-TP113	233	0.2	pH	7.8	-	4	284529	210618		NO	NO		POINT (284528.96 210618.04)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-TP113	233	0.2	Organic Matter	98	%	0.4	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.2	Anthracene	0.53	mg/kg	0.1	284529	210618	535000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Pyrene	1	mg/kg	0.1	284529	210618	54100	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284529	210618	49.1	NO	NO	0.01	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.2	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.2	Benzo[b]fluoranthene	1.2	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.2	Fluoranthene	1.4	mg/kg	0.1	284529	210618	72200	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Benzo[k]fluoranthene	0.26	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.2	Acenaphthylene	< 0.1	mg/kg	0.1	284529	210618	83600	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Chrysene	1	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.2	Benzo[a]pyrene	0.51	mg/kg	0.1	284529	210618	76.3	NO	NO	0.01	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.2	Benzo[a]anthracene	0.56	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.2	Cyanide (Total)	< 0.5	mg/kg	0.5	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.2	Lead	17	mg/kg	0.5	284529	210618	2310	NO	NO	0.01	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Mercury	< 0.05	mg/kg	0.05	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.2	Nickel	7.1	mg/kg	0.5	284529	210618	1770	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Arsenic	4.6	mg/kg	0.5	284529	210618	635	NO	NO	0.01	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.2	Cadmium	< 0.1	mg/kg	0.1	284529	210618	410	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Chromium	6.7	mg/kg	0.5	284529	210618	208000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Copper	26	mg/kg	0.5	284529	210618	106000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Vanadium	7	mg/kg	0.5	284529	210618	7490	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Zinc	62	mg/kg	0.5	284529	210618	1100000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Selenium	0.38	mg/kg	0.25	284529	210618	13000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Acenaphthene	0.17	mg/kg	0.1	284529	210618	83600	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Phenanthrene	2.1	mg/kg	0.1	284529	210618	535000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Fluorene	0.28	mg/kg	0.1	284529	210618	66500	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Naphthalene	1.7	mg/kg	0.1	284529	210618	90.1	NO	NO	0.02	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Cyanide (Free)	< 0.5	mg/kg	0.5	284529	210618	373	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Total Phenols	< 0.1	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.2	Total Of 16 PAH's	11	mg/kg	2	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.2	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284529	210618	27900	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284529	210618	2210	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284529	210618	12300	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284529	210618	41300	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284529	210618	28400	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284529	210618	28400	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.2	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284529	210618	4490	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284529	210618	10400	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284529	210618	1370	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284529	210618	7900	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284529	210618	34000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284529	210618	3620000	NO	NO	0	POINT (284528.96 210618.04)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-TP113	233	0.2	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284529	210618	3620000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.2	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284529	210618	12.5	NO	NO	0.08	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.2	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.2	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.2	Ethylbenzene	< 0.001	mg/kg	0.001	284529	210618	7660	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Toluene	< 0.001	mg/kg	0.001	284529	210618	27900	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	Benzene	< 0.001	mg/kg	0.001	284529	210618	12.5	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	o-Xylene	< 0.001	mg/kg	0.001	284529	210618	3030	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.2	m & p-Xylene	< 0.001	mg/kg	0.001	284529	210618	2720	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	pH	7.8	-	4	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Organic Matter	86	%	0.4	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Anthracene	0.23	mg/kg	0.1	284529	210618	535000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Pyrene	0.58	mg/kg	0.1	284529	210618	54100	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284529	210618	49.1	NO	NO	0.01	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Fluoranthene	0.71	mg/kg	0.1	284529	210618	72200	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Acenaphthylene	< 0.1	mg/kg	0.1	284529	210618	83600	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Chrysene	< 0.1	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Benzo[a]pyrene	0.26	mg/kg	0.1	284529	210618	76.3	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Cyanide (Total)	< 0.5	mg/kg	0.5	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Lead	38	mg/kg	0.5	284529	210618	2310	NO	NO	0.02	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Mercury	0.07	mg/kg	0.05	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Nickel	20	mg/kg	0.5	284529	210618	1770	NO	NO	0.01	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Arsenic	9.5	mg/kg	0.5	284529	210618	635	NO	NO	0.01	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Cadmium	0.1	mg/kg	0.1	284529	210618	410	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Chromium	6.6	mg/kg	0.5	284529	210618	208000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Copper	51	mg/kg	0.5	284529	210618	106000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Vanadium	12	mg/kg	0.5	284529	210618	7490	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Zinc	110	mg/kg	0.5	284529	210618	1100000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Selenium	1.1	mg/kg	0.25	284529	210618	13000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Acenaphthene	0.25	mg/kg	0.1	284529	210618	83600	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Phenanthrene	0.95	mg/kg	0.1	284529	210618	535000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Fluorene	0.17	mg/kg	0.1	284529	210618	66500	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Naphthalene	1.3	mg/kg	0.1	284529	210618	90.1	NO	NO	0.01	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Cyanide (Free)	< 0.5	mg/kg	0.5	284529	210618	373	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Total Phenols	< 0.1	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Total Of 16 PAH's	4.5	mg/kg	2	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284529	210618	27900	NO	NO	0	POINT (284528.96 210618.04)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-TP113	233	0.5	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284529	210618	2210	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284529	210618	12300	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284529	210618	41300	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284529	210618	28400	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284529	210618	28400	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284529	210618	4490	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284529	210618	10400	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284529	210618	1370	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284529	210618	7900	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284529	210618	34000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284529	210618	3620000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284529	210618	3620000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284529	210618	12.5	NO	NO	0.08	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Ethylbenzene	< 0.001	mg/kg	0.001	284529	210618	7660	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Toluene	< 0.001	mg/kg	0.001	284529	210618	27900	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Benzene	< 0.001	mg/kg	0.001	284529	210618	12.5	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	o-Xylene	< 0.001	mg/kg	0.001	284529	210618	3030	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	m & p-Xylene	< 0.001	mg/kg	0.001	284529	210618	2720	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	pH	5.7	-	4	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.9	Organic Matter	1.2	%	0.4	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.9	Anthracene	< 0.1	mg/kg	0.1	284529	210618	535000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Pyrene	< 0.1	mg/kg	0.1	284529	210618	54100	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284529	210618	49.1	NO	NO	0.01	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.9	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.9	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.9	Fluoranthene	< 0.1	mg/kg	0.1	284529	210618	72200	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.9	Acenaphthylene	< 0.1	mg/kg	0.1	284529	210618	83600	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Chrysene	< 0.1	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.9	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284529	210618	76.3	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.9	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.9	Cyanide (Total)	< 0.5	mg/kg	0.5	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.9	Lead	13	mg/kg	0.5	284529	210618	2310	NO	NO	0.01	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Mercury	< 0.05	mg/kg	0.05	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.9	Nickel	6.3	mg/kg	0.5	284529	210618	1770	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Arsenic	3.2	mg/kg	0.5	284529	210618	635	NO	NO	0.01	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.9	Cadmium	< 0.1	mg/kg	0.1	284529	210618	410	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Chromium	11	mg/kg	0.5	284529	210618	208000	NO	NO	0	POINT (284528.96 210618.04)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-TP113	233	0.9	Copper	10	mg/kg	0.5	284529	210618	106000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Vanadium	17	mg/kg	0.5	284529	210618	7490	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Zinc	23	mg/kg	0.5	284529	210618	1100000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Selenium	0.59	mg/kg	0.25	284529	210618	13000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Acenaphthene	< 0.1	mg/kg	0.1	284529	210618	83600	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Phenanthrene	< 0.1	mg/kg	0.1	284529	210618	535000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Fluorene	< 0.1	mg/kg	0.1	284529	210618	66500	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Naphthalene	< 0.1	mg/kg	0.1	284529	210618	90.1	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Cyanide (Free)	< 0.5	mg/kg	0.5	284529	210618	373	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Total Phenols	< 0.1	mg/kg	0.1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.9	Total Of 16 PAH's	< 2.0	mg/kg	2	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.9	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284529	210618	27900	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284529	210618	2210	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284529	210618	12300	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284529	210618	41300	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284529	210618	28400	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284529	210618	28400	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.9	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284529	210618	4490	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284529	210618	10400	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284529	210618	1370	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284529	210618	7900	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284529	210618	34000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284529	210618	3620000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284529	210618	3620000	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.9	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284529	210618	12.5	NO	NO	0.08	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.9	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.9	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.9	Ethylbenzene	< 0.001	mg/kg	0.001	284529	210618	7660	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Toluene	< 0.001	mg/kg	0.001	284529	210618	27900	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	Benzene	< 0.001	mg/kg	0.001	284529	210618	12.5	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	o-Xylene	< 0.001	mg/kg	0.001	284529	210618	3030	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.9	m & p-Xylene	< 0.001	mg/kg	0.001	284529	210618	2720	NO	NO	0	POINT (284528.96 210618.04)
S1-TP114	239.99	0.1	pH	4.3	-	4	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Organic Matter	26	%	0.4	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Anthracene	< 0.1	mg/kg	0.1	284975	210562.9	535000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Pyrene	0.3	mg/kg	0.1	284975	210562.9	54100	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284975	210562.9	49.1	NO	NO	0.01	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Benzo[g,h,i]perylene	0.2	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Indeno(1,2,3-c,d)Pyrene	0.12	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Benzo[b]fluoranthene	0.18	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Fluoranthene	0.21	mg/kg	0.1	284975	210562.9	72200	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Acenaphthylene	< 0.1	mg/kg	0.1	284975	210562.9	83600	NO	NO	0	POINT (284975.01 210562.92)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-TP114	239.99	0.1	Chrysene	0.33	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284975	210562.9	76.3	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Dibenz(a,h)Anthracene	0.11	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Benzo[a]anthracene	0.24	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Cyanide (Total)	< 0.5	mg/kg	0.5	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Lead	34	mg/kg	0.5	284975	210562.9	2310	NO	NO	0.01	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Mercury	< 0.05	mg/kg	0.05	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Nickel	3.4	mg/kg	0.5	284975	210562.9	1770	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Arsenic	11	mg/kg	0.5	284975	210562.9	635	NO	NO	0.02	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Boron (Hot Water Soluble)	0.44	mg/kg	0.4	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Cadmium	< 0.1	mg/kg	0.1	284975	210562.9	410	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Chromium	1.9	mg/kg	0.5	284975	210562.9	208000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Copper	17	mg/kg	0.5	284975	210562.9	106000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Vanadium	4.4	mg/kg	0.5	284975	210562.9	7490	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Zinc	11	mg/kg	0.5	284975	210562.9	1100000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Selenium	1.5	mg/kg	0.25	284975	210562.9	13000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Acenaphthene	< 0.1	mg/kg	0.1	284975	210562.9	83600	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Phenanthrene	1.1	mg/kg	0.1	284975	210562.9	535000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Fluorene	0.43	mg/kg	0.1	284975	210562.9	66500	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Naphthalene	1	mg/kg	0.1	284975	210562.9	90.1	NO	NO	0.01	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Cyanide (Free)	< 0.5	mg/kg	0.5	284975	210562.9	373	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Total Phenols	< 0.1	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Total Of 16 PAH's	4.2	mg/kg	2	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284975	210562.9	27900	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284975	210562.9	2210	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284975	210562.9	12300	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284975	210562.9	41300	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284975	210562.9	28400	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284975	210562.9	28400	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284975	210562.9	4490	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284975	210562.9	10400	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284975	210562.9	1370	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284975	210562.9	7900	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284975	210562.9	34000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284975	210562.9	3620000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284975	210562.9	3620000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284975	210562.9	12.5	NO	NO	0.08	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Ethylbenzene	< 0.001	mg/kg	0.001	284975	210562.9	7660	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Toluene	< 0.001	mg/kg	0.001	284975	210562.9	27900	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Benzene	< 0.001	mg/kg	0.001	284975	210562.9	12.5	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	o-Xylene	< 0.001	mg/kg	0.001	284975	210562.9	3030	NO	NO	0	POINT (284975.01 210562.92)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-TP114	239.99	0.1	m & p-Xylene	< 0.001	mg/kg	0.001	284975	210562.9	2720	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	pH	5.9	-	4	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	pH	5.9	-	4	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Loss On Ignition	13	%	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Organic Matter	83	%	0.4	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Total Organic Carbon	48	%	0.2	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Dry Mass Of Test Portion	0.175	kg	0	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Anthracene	< 0.1	mg/kg	0.1	284975	210562.9	535000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Pyrene	< 0.1	mg/kg	0.1	284975	210562.9	54100	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Total PCBs (7 Congeners)	< 0.1	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284975	210562.9	49.1	NO	NO	0.01	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Fluoranthene	< 0.1	mg/kg	0.1	284975	210562.9	72200	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Acenaphthylene	< 0.1	mg/kg	0.1	284975	210562.9	83600	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Chrysene	< 0.1	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284975	210562.9	76.3	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Cyanide (Total)	< 0.5	mg/kg	0.5	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Lead	36	mg/kg	0.5	284975	210562.9	2310	NO	NO	0.02	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Mercury	0.06	mg/kg	0.05	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Nickel	21	mg/kg	0.5	284975	210562.9	1770	NO	NO	0.01	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Arsenic	11	mg/kg	0.5	284975	210562.9	635	NO	NO	0.02	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Boron (Hot Water Soluble)	1.9	mg/kg	0.4	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Cadmium	0.11	mg/kg	0.1	284975	210562.9	410	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Chromium	5.7	mg/kg	0.5	284975	210562.9	208000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Copper	32	mg/kg	0.5	284975	210562.9	106000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Vanadium	10	mg/kg	0.5	284975	210562.9	7490	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Zinc	54	mg/kg	0.5	284975	210562.9	1100000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Selenium	1.5	mg/kg	0.25	284975	210562.9	13000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Acenaphthene	< 0.1	mg/kg	0.1	284975	210562.9	83600	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Phenanthrene	0.3	mg/kg	0.1	284975	210562.9	535000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Fluorene	0.13	mg/kg	0.1	284975	210562.9	66500	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Naphthalene	0.49	mg/kg	0.1	284975	210562.9	90.1	NO	NO	0.01	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Cyanide (Free)	< 0.5	mg/kg	0.5	284975	210562.9	373	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Total Phenols	< 0.1	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Total (Of 17) PAH's	< 2.0	mg/kg	2	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Total Of 16 PAH's	< 2.0	mg/kg	2	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Total BTEX	< 0.01	mg/kg	0.01	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284975	210562.9	27900	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284975	210562.9	2210	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284975	210562.9	12300	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284975	210562.9	41300	NO	NO	0	POINT (284975.01 210562.92)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-TP114	239.99	0.3	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284975	210562.9	28400	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284975	210562.9	28400	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	TPH Total WAC	< 10.0	mg/kg	10	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284975	210562.9	4490	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284975	210562.9	10400	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284975	210562.9	1370	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284975	210562.9	7900	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284975	210562.9	34000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284975	210562.9	3620000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284975	210562.9	3620000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284975	210562.9	12.5	NO	NO	0.08	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Acid Neutralisation Capacity	0.015	mol/kg	0	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Ethylbenzene	< 0.001	mg/kg	0.001	284975	210562.9	7660	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Toluene	< 0.001	mg/kg	0.001	284975	210562.9	27900	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Benzene	< 0.001	mg/kg	0.001	284975	210562.9	12.5	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	o-Xylene	< 0.001	mg/kg	0.001	284975	210562.9	3030	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	m & p-Xylene	< 0.001	mg/kg	0.001	284975	210562.9	2720	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	pH	8.4	-	4	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Organic Matter	4.4	%	0.4	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Anthracene	0.12	mg/kg	0.1	284975	210562.9	535000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Pyrene	0.3	mg/kg	0.1	284975	210562.9	54100	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284975	210562.9	49.1	NO	NO	0.01	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Benzo[b]fluoranthene	< 0.1	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Fluoranthene	0.36	mg/kg	0.1	284975	210562.9	72200	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Benzo[k]fluoranthene	< 0.1	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Acenaphthylene	< 0.1	mg/kg	0.1	284975	210562.9	83600	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Chrysene	< 0.1	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Benzo[a]pyrene	< 0.1	mg/kg	0.1	284975	210562.9	76.3	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Benzo[a]anthracene	< 0.1	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Cyanide (Total)	< 0.5	mg/kg	0.5	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Lead	48	mg/kg	0.5	284975	210562.9	2310	NO	NO	0.02	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Mercury	0.12	mg/kg	0.05	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Nickel	25	mg/kg	0.5	284975	210562.9	1770	NO	NO	0.01	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Arsenic	12	mg/kg	0.5	284975	210562.9	635	NO	NO	0.02	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Boron (Hot Water Soluble)	1.5	mg/kg	0.4	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Cadmium	0.21	mg/kg	0.1	284975	210562.9	410	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Chromium	6.5	mg/kg	0.5	284975	210562.9	208000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Copper	37	mg/kg	0.5	284975	210562.9	106000	NO	NO	0	POINT (284975.01 210562.92)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-TP114	239.99	0.9	Vanadium	8.2	mg/kg	0.5	284975	210562.9	7490	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Zinc	55	mg/kg	0.5	284975	210562.9	1100000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Selenium	2.9	mg/kg	0.25	284975	210562.9	13000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Acenaphthene	< 0.1	mg/kg	0.1	284975	210562.9	83600	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Phenanthrene	0.54	mg/kg	0.1	284975	210562.9	535000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Fluorene	< 0.1	mg/kg	0.1	284975	210562.9	66500	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Naphthalene	1.2	mg/kg	0.1	284975	210562.9	90.1	NO	NO	0.01	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Cyanide (Free)	< 0.5	mg/kg	0.5	284975	210562.9	373	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Total Phenols	< 0.1	mg/kg	0.1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Total Of 16 PAH's	2.5	mg/kg	2	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284975	210562.9	27900	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284975	210562.9	2210	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284975	210562.9	12300	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284975	210562.9	41300	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284975	210562.9	28400	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284975	210562.9	28400	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284975	210562.9	4490	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284975	210562.9	10400	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284975	210562.9	1370	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284975	210562.9	7900	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284975	210562.9	34000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284975	210562.9	3620000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284975	210562.9	3620000	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284975	210562.9	12.5	NO	NO	0.08	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Ethylbenzene	< 0.001	mg/kg	0.001	284975	210562.9	7660	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Toluene	< 0.001	mg/kg	0.001	284975	210562.9	27900	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Benzene	< 0.001	mg/kg	0.001	284975	210562.9	12.5	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	o-Xylene	< 0.001	mg/kg	0.001	284975	210562.9	3030	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	m & p-Xylene	< 0.001	mg/kg	0.001	284975	210562.9	2720	NO	NO	0	POINT (284975.01 210562.92)
S1-TP115	230.63	0.2	pH	8.1	-	4	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	pH	7.8	-	4	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Loss On Ignition	8.6	%	0.1	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Organic Matter	52	%	0.4	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Total Organic Carbon	28	%	0.2	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Dry Mass Of Test Portion	0.175	kg	0	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Anthracene	0.17	mg/kg	0.1	284344.6	210556.7	535000	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Pyrene	0.56	mg/kg	0.1	284344.6	210556.7	54100	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Total PCBs (7 Congeners)	< 0.1	mg/kg	0.1	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284344.6	210556.7	49.1	NO	NO	0.01	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Benzo[g,h,i]perylene	0.72	mg/kg	0.1	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Indeno(1,2,3-c,d)Pyrene	0.76	mg/kg	0.1	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-TP115	230.63	0.2	Benzo[b]fluoranthene	1	mg/kg	0.1	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Fluoranthene	0.67	mg/kg	0.1	284344.6	210556.7	72200	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Benzo[k]fluoranthene	0.6	mg/kg	0.1	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Acenaphthylene	< 0.1	mg/kg	0.1	284344.6	210556.7	83600	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Chrysene	0.49	mg/kg	0.1	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Benzo[a]pyrene	0.67	mg/kg	0.1	284344.6	210556.7	76.3	NO	NO	0.01	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Dibenz(a,h)Anthracene	0.43	mg/kg	0.1	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Benzo[a]anthracene	0.57	mg/kg	0.1	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Cyanide (Total)	< 0.5	mg/kg	0.5	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Lead	24	mg/kg	0.5	284344.6	210556.7	2310	NO	NO	0.01	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Mercury	0.06	mg/kg	0.05	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Nickel	14	mg/kg	0.5	284344.6	210556.7	1770	NO	NO	0.01	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Arsenic	7.6	mg/kg	0.5	284344.6	210556.7	635	NO	NO	0.01	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Cadmium	0.17	mg/kg	0.1	284344.6	210556.7	410	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Chromium	4.9	mg/kg	0.5	284344.6	210556.7	208000	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Copper	20	mg/kg	0.5	284344.6	210556.7	106000	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Vanadium	6.9	mg/kg	0.5	284344.6	210556.7	7490	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Zinc	53	mg/kg	0.5	284344.6	210556.7	1100000	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Selenium	0.69	mg/kg	0.25	284344.6	210556.7	13000	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Acenaphthene	< 0.1	mg/kg	0.1	284344.6	210556.7	83600	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Phenanthrene	0.79	mg/kg	0.1	284344.6	210556.7	535000	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Fluorene	0.16	mg/kg	0.1	284344.6	210556.7	66500	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Naphthalene	0.68	mg/kg	0.1	284344.6	210556.7	90.1	NO	NO	0.01	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Cyanide (Free)	< 0.5	mg/kg	0.5	284344.6	210556.7	373	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Total Phenols	< 0.1	mg/kg	0.1	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Total Of 16 PAH's	8.3	mg/kg	2	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Total (Of 17) PAH's	29	mg/kg	2	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Total BTEX	< 0.01	mg/kg	0.01	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284344.6	210556.7	27900	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284344.6	210556.7	2210	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284344.6	210556.7	12300	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284344.6	210556.7	41300	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284344.6	210556.7	28400	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Aromatic TPH >C21-C35	180	mg/kg	1	284344.6	210556.7	28400	NO	NO	0.01	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	TPH Total WAC	3500	mg/kg	10	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284344.6	210556.7	4490	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284344.6	210556.7	10400	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284344.6	210556.7	1370	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284344.6	210556.7	7900	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284344.6	210556.7	34000	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284344.6	210556.7	3620000	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Aliphatic TPH >C21-C35	150	mg/kg	1	284344.6	210556.7	3620000	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284344.6	210556.7	12.5	NO	NO	0.08	POINT (284344.59 210556.68)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-TP115	230.63	0.2	Total Petroleum Hydrocarbor	330	mg/kg	10	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Total Aliphatic Hydrocarbons	150	mg/kg	5	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Total Aromatic Hydrocarbons	180	mg/kg	5	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Acid Neutralisation Capacity	0.009	mol/kg	0	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Ethylbenzene	< 0.001	mg/kg	0.001	284344.6	210556.7	7660	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Toluene	< 0.001	mg/kg	0.001	284344.6	210556.7	27900	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Benzene	< 0.001	mg/kg	0.001	284344.6	210556.7	12.5	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	o-Xylene	< 0.001	mg/kg	0.001	284344.6	210556.7	3030	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	m & p-Xylene	< 0.001	mg/kg	0.001	284344.6	210556.7	2720	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	pH	8.1	-	4	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Total Asbestos		%	0	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Organic Matter	100	%	0.4	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Asbestos by Gravimetry		%	0	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Anthracene	0.34	mg/kg	0.1	284344.6	210556.7	535000	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Pyrene	1.7	mg/kg	0.1	284344.6	210556.7	54100	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284344.6	210556.7	49.1	NO	NO	0.01	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Benzo[g,h,i]perylene	0.49	mg/kg	0.1	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Indeno(1,2,3-c,d)Pyrene	0.56	mg/kg	0.1	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Benzo[b]fluoranthene	1.4	mg/kg	0.1	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Fluoranthene	2.5	mg/kg	0.1	284344.6	210556.7	72200	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Benzo[k]fluoranthene	0.39	mg/kg	0.1	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Acenaphthylene	< 0.1	mg/kg	0.1	284344.6	210556.7	83600	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Chrysene	1.3	mg/kg	0.1	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Benzo[a]pyrene	0.94	mg/kg	0.1	284344.6	210556.7	76.3	NO	NO	0.01	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Dibenz(a,h)Anthracene	0.2	mg/kg	0.1	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Benzo[a]anthracene	0.9	mg/kg	0.1	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Cyanide (Total)	< 0.5	mg/kg	0.5	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Lead	12	mg/kg	0.5	284344.6	210556.7	2310	NO	NO	0.01	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Mercury	0.05	mg/kg	0.05	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Nickel	7.1	mg/kg	0.5	284344.6	210556.7	1770	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Arsenic	6.9	mg/kg	0.5	284344.6	210556.7	635	NO	NO	0.01	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Cadmium	< 0.1	mg/kg	0.1	284344.6	210556.7	410	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Chromium	2.5	mg/kg	0.5	284344.6	210556.7	208000	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Copper	19	mg/kg	0.5	284344.6	210556.7	106000	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Vanadium	2.7	mg/kg	0.5	284344.6	210556.7	7490	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Zinc	27	mg/kg	0.5	284344.6	210556.7	1100000	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Selenium	0.54	mg/kg	0.25	284344.6	210556.7	13000	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Acenaphthene	0.25	mg/kg	0.1	284344.6	210556.7	83600	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Phenanthrene	2.5	mg/kg	0.1	284344.6	210556.7	535000	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Fluorene	0.3	mg/kg	0.1	284344.6	210556.7	66500	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Naphthalene	1.7	mg/kg	0.1	284344.6	210556.7	90.1	NO	NO	0.02	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Cyanide (Free)	< 0.5	mg/kg	0.5	284344.6	210556.7	373	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Total Phenols	< 0.1	mg/kg	0.1	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Total Of 16 PAH's	16	mg/kg	2	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284344.6	210556.7	27900	NO	NO	0	POINT (284344.59 210556.68)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-TP115	230.63	0.5	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284344.6	210556.7	2210	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284344.6	210556.7	12300	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284344.6	210556.7	41300	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284344.6	210556.7	28400	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284344.6	210556.7	28400	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284344.6	210556.7	4490	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284344.6	210556.7	10400	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284344.6	210556.7	1370	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284344.6	210556.7	7900	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284344.6	210556.7	34000	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284344.6	210556.7	3620000	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284344.6	210556.7	3620000	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284344.6	210556.7	12.5	NO	NO	0.08	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Ethylbenzene	< 0.001	mg/kg	0.001	284344.6	210556.7	7660	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Toluene	< 0.001	mg/kg	0.001	284344.6	210556.7	27900	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Benzene	< 0.001	mg/kg	0.001	284344.6	210556.7	12.5	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	o-Xylene	< 0.001	mg/kg	0.001	284344.6	210556.7	3030	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	m & p-Xylene	< 0.001	mg/kg	0.001	284344.6	210556.7	2720	NO	NO	0	POINT (284344.59 210556.68)
TP01	229.98	0.2	pH	8.2	-	4	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	Total Organic Carbon	22	%	0.2	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	Ethylbenzene	< 0.001	mg/kg	0.001	284246.9	210516	7660	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Toluene	< 0.001	mg/kg	0.001	284246.9	210516	27900	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Anthracene	0.46	mg/kg	0.1	284246.9	210516	535000	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Pyrene	4.1	mg/kg	0.1	284246.9	210516	54100	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Total PCBs (12 Congeners)	< 0.001	mg/kg	0.001	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	Benzo[g,h,i]perylene	1.3	mg/kg	0.1	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	Indeno(1,2,3-c,d)Pyrene	1.4	mg/kg	0.1	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	Benzo[b]fluoranthene	2.9	mg/kg	0.1	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	Fluoranthene	4.3	mg/kg	0.1	284246.9	210516	72200	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Benzo[k]fluoranthene	1.1	mg/kg	0.1	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	Acenaphthylene	0.22	mg/kg	0.1	284246.9	210516	83600	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Chrysene	2.5	mg/kg	0.1	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	PCB 118	< 0.001	mg/kg	0.001	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	PCB 77	< 0.001	mg/kg	0.001	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	PCB 105	< 0.001	mg/kg	0.001	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	PCB 169	< 0.001	mg/kg	0.001	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	PCB 156	< 0.001	mg/kg	0.001	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	PCB 189	< 0.001	mg/kg	0.001	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	Benzo[a]pyrene	2	mg/kg	0.1	284246.9	210516	76.3	NO	NO	0.03	POINT (284246.92 210515.99)
TP01	229.98	0.2	PCB 167	< 0.001	mg/kg	0.001	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	Dibenz(a,h)Anthracene	0.35	mg/kg	0.1	284246.9	210516		NO	NO		POINT (284246.92 210515.99)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
TP01	229.98	0.2	Benzo[a]anthracene	2.3	mg/kg	0.1	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	Cyanide (Total)	< 0.5	mg/kg	0.5	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	PCB 126	< 0.001	mg/kg	0.001	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	PCB 123	< 0.001	mg/kg	0.001	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	PCB 157	< 0.001	mg/kg	0.001	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	PCB 81	< 0.001	mg/kg	0.001	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	Benzene	< 0.001	mg/kg	0.001	284246.9	210516	12.5	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Lead	26	mg/kg	0.5	284246.9	210516	2310	NO	NO	0.01	POINT (284246.92 210515.99)
TP01	229.98	0.2	Mercury	< 0.1	mg/kg	0.1	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	Nickel	34	mg/kg	0.5	284246.9	210516	1770	NO	NO	0.02	POINT (284246.92 210515.99)
TP01	229.98	0.2	Arsenic	12	mg/kg	1	284246.9	210516	635	NO	NO	0.02	POINT (284246.92 210515.99)
TP01	229.98	0.2	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	Cadmium	0.26	mg/kg	0.1	284246.9	210516	410	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Chromium	18	mg/kg	1	284246.9	210516	208000	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Copper	69	mg/kg	0.5	284246.9	210516	106000	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Zinc	110	mg/kg	0.5	284246.9	210516	1100000	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	PCB 114	< 0.001	mg/kg	0.001	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	Selenium	0.61	mg/kg	0.2	284246.9	210516	13000	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Acenaphthene	0.22	mg/kg	0.1	284246.9	210516	83600	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Phenanthrene	2.4	mg/kg	0.1	284246.9	210516	535000	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Fluorene	0.3	mg/kg	0.1	284246.9	210516	66500	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Naphthalene	1.2	mg/kg	0.1	284246.9	210516	90.1	NO	NO	0.01	POINT (284246.92 210515.99)
TP01	229.98	0.2	o-Xylene	< 0.001	mg/kg	0.001	284246.9	210516	3030	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Total Phenols	< 0.1	mg/kg	0.1	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	Total Of 16 PAH's	27	mg/kg	2	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284246.9	210516	27900	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284246.9	210516	2210	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284246.9	210516	12300	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284246.9	210516	41300	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284246.9	210516	28400	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Aromatic TPH >C21-C35	1100	mg/kg	1	284246.9	210516	28400	NO	NO	0.04	POINT (284246.92 210515.99)
TP01	229.98	0.2	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	m & p-Xylene	< 0.001	mg/kg	0.001	284246.9	210516	2720	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284246.9	210516	4490	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284246.9	210516	10400	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284246.9	210516	1370	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284246.9	210516	7900	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284246.9	210516	34000	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284246.9	210516	3620000	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284246.9	210516	3620000	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	0.2	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284246.9	210516	12.5	NO	NO	0.08	POINT (284246.92 210515.99)
TP01	229.98	0.2	Total Petroleum Hydrocarbor	1100	mg/kg	10	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	0.2	Total Aromatic Hydrocarbons	1100	mg/kg	5	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	1	pH	9	-	4	284246.9	210516		NO	NO		POINT (284246.92 210515.99)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
TP01	229.98	1	LOI	22	%	0.1	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	1	Total Organic Carbon	43	%	0.2	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	1	Ethylbenzene	< 0.001	mg/kg	0.001	284246.9	210516	7660	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Toluene	< 0.001	mg/kg	0.001	284246.9	210516	27900	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Anthracene	0.64	mg/kg	0.1	284246.9	210516	535000	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Pyrene	3.3	mg/kg	0.1	284246.9	210516	54100	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284246.9	210516	49.1	NO	NO	0.01	POINT (284246.92 210515.99)
TP01	229.98	1	Benzo[g,h,i]perylene	1.2	mg/kg	0.1	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	1	Indeno(1,2,3-c,d)Pyrene	1.2	mg/kg	0.1	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	1	Benzo[b]fluoranthene	2.5	mg/kg	0.1	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	1	Fluoranthene	4	mg/kg	0.1	284246.9	210516	72200	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Benzo[k]fluoranthene	0.82	mg/kg	0.1	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	1	Acenaphthylene	< 0.1	mg/kg	0.1	284246.9	210516	83600	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Chrysene	2	mg/kg	0.1	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	1	Benzo[a]pyrene	1.6	mg/kg	0.1	284246.9	210516	76.3	NO	NO	0.02	POINT (284246.92 210515.99)
TP01	229.98	1	Dibenz(a,h)Anthracene	0.24	mg/kg	0.1	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	1	Benzo[a]anthracene	1.7	mg/kg	0.1	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	1	Cyanide (Total)	< 0.5	mg/kg	0.5	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	1	Benzene	< 0.001	mg/kg	0.001	284246.9	210516	12.5	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Lead	69	mg/kg	0.5	284246.9	210516	2310	NO	NO	0.03	POINT (284246.92 210515.99)
TP01	229.98	1	Mercury	0.15	mg/kg	0.1	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	1	Nickel	26	mg/kg	0.5	284246.9	210516	1770	NO	NO	0.01	POINT (284246.92 210515.99)
TP01	229.98	1	Arsenic	17	mg/kg	1	284246.9	210516	635	NO	NO	0.03	POINT (284246.92 210515.99)
TP01	229.98	1	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	1	Cadmium	0.46	mg/kg	0.1	284246.9	210516	410	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Chromium	13	mg/kg	1	284246.9	210516	208000	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Copper	260	mg/kg	0.5	284246.9	210516	106000	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Zinc	240	mg/kg	0.5	284246.9	210516	1100000	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Selenium	1.1	mg/kg	0.2	284246.9	210516	13000	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Acenaphthene	< 0.1	mg/kg	0.1	284246.9	210516	83600	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Phenanthrene	2.8	mg/kg	0.1	284246.9	210516	535000	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Fluorene	< 0.1	mg/kg	0.1	284246.9	210516	66500	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Naphthalene	< 0.1	mg/kg	0.1	284246.9	210516	90.1	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	o-Xylene	< 0.001	mg/kg	0.001	284246.9	210516	3030	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Total Phenols	< 0.1	mg/kg	0.1	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	1	Total Of 16 PAH's	22	mg/kg	2	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	1	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284246.9	210516	27900	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284246.9	210516	2210	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284246.9	210516	12300	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284246.9	210516	41300	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284246.9	210516	28400	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284246.9	210516	28400	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	1	m & p-Xylene	< 0.001	mg/kg	0.001	284246.9	210516	2720	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284246.9	210516	4490	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284246.9	210516	10400	NO	NO	0	POINT (284246.92 210515.99)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
TP01	229.98	1	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284246.9	210516	1370	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284246.9	210516	7900	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284246.9	210516	34000	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284246.9	210516	3620000	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284246.9	210516	3620000	NO	NO	0	POINT (284246.92 210515.99)
TP01	229.98	1	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	1	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284246.9	210516	12.5	NO	NO	0.08	POINT (284246.92 210515.99)
TP01	229.98	1	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	1	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	1	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP02	231.44	0.3	pH	8.5	-	4	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	0.3	Total Organic Carbon	39	%	0.2	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	0.3	Ethylbenzene	< 0.001	mg/kg	0.001	284410.8	210600.1	7660	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Toluene	0.0013	mg/kg	0.001	284410.8	210600.1	27900	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Anthracene	0.25	mg/kg	0.1	284410.8	210600.1	535000	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Pyrene	0.83	mg/kg	0.1	284410.8	210600.1	54100	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Benzo[g,h,i]perylene	< 0.1	mg/kg	0.1	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	0.3	Indeno(1,2,3-c,d)Pyrene	< 0.1	mg/kg	0.1	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	0.3	Benzo[b]fluoranthene	0.57	mg/kg	0.1	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	0.3	Fluoranthene	1	mg/kg	0.1	284410.8	210600.1	72200	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Benzo[k]fluoranthene	0.2	mg/kg	0.1	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	0.3	Acenaphthylene	< 0.1	mg/kg	0.1	284410.8	210600.1	83600	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Chrysene	0.55	mg/kg	0.1	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	0.3	Benzo[a]pyrene	0.26	mg/kg	0.1	284410.8	210600.1	76.3	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Dibenz(a,h)Anthracene	< 0.1	mg/kg	0.1	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	0.3	Benzo[a]anthracene	0.37	mg/kg	0.1	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	0.3	Cyanide (Total)	< 0.5	mg/kg	0.5	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	0.3	Benzene	0.0014	mg/kg	0.001	284410.8	210600.1	12.5	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Lead	23	mg/kg	0.5	284410.8	210600.1	2310	NO	NO	0.01	POINT (284410.81 210600.05)
TP02	231.44	0.3	Mercury	0.1	mg/kg	0.1	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	0.3	Nickel	18	mg/kg	0.5	284410.8	210600.1	1770	NO	NO	0.01	POINT (284410.81 210600.05)
TP02	231.44	0.3	Arsenic	14	mg/kg	1	284410.8	210600.1	635	NO	NO	0.02	POINT (284410.81 210600.05)
TP02	231.44	0.3	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	0.3	Cadmium	0.11	mg/kg	0.1	284410.8	210600.1	410	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Chromium	11	mg/kg	1	284410.8	210600.1	208000	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Copper	38	mg/kg	0.5	284410.8	210600.1	106000	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Zinc	41	mg/kg	0.5	284410.8	210600.1	1100000	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Selenium	1	mg/kg	0.2	284410.8	210600.1	13000	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Acenaphthene	< 0.1	mg/kg	0.1	284410.8	210600.1	83600	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Phenanthrene	1.4	mg/kg	0.1	284410.8	210600.1	535000	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Fluorene	< 0.1	mg/kg	0.1	284410.8	210600.1	66500	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Naphthalene	< 0.1	mg/kg	0.1	284410.8	210600.1	90.1	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	o-Xylene	< 0.001	mg/kg	0.001	284410.8	210600.1	3030	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Total Phenols	< 0.1	mg/kg	0.1	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	0.3	Total Of 16 PAH's	5.4	mg/kg	2	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	0.3	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284410.8	210600.1	27900	NO	NO	0	POINT (284410.81 210600.05)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
TP02	231.44	0.3	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284410.8	210600.1	2210	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284410.8	210600.1	12300	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284410.8	210600.1	41300	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284410.8	210600.1	28400	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Aromatic TPH >C21-C35	< 1.0	mg/kg	1	284410.8	210600.1	28400	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	0.3	m & p-Xylene	< 0.001	mg/kg	0.001	284410.8	210600.1	2720	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284410.8	210600.1	4490	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284410.8	210600.1	10400	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284410.8	210600.1	1370	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284410.8	210600.1	7900	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284410.8	210600.1	34000	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284410.8	210600.1	3620000	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Aliphatic TPH >C21-C35	< 1.0	mg/kg	1	284410.8	210600.1	3620000	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	0.3	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	0.3	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284410.8	210600.1	12.5	NO	NO	0.08	POINT (284410.81 210600.05)
TP02	231.44	0.3	Total Petroleum Hydrocarbor	< 10.0	mg/kg	10	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	0.3	Total Aliphatic Hydrocarbons	< 5.0	mg/kg	5	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	0.3	Total Aromatic Hydrocarbons	< 5.0	mg/kg	5	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	1	pH	8.5	-	4	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	1	LOI	65	%	0.1	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	1	Total Organic Carbon	44	%	0.2	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	1	Ethylbenzene	< 0.001	mg/kg	0.001	284410.8	210600.1	7660	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Toluene	< 0.001	mg/kg	0.001	284410.8	210600.1	27900	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Anthracene	0.48	mg/kg	0.1	284410.8	210600.1	535000	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Pyrene	2	mg/kg	0.1	284410.8	210600.1	54100	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Chromium (Hexavalent)	< 0.5	mg/kg	0.5	284410.8	210600.1	49.1	NO	NO	0.01	POINT (284410.81 210600.05)
TP02	231.44	1	Benzo[g,h,i]perylene	0.45	mg/kg	0.1	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	1	Indeno(1,2,3-c,d)Pyrene	0.46	mg/kg	0.1	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	1	Benzo[b]fluoranthene	1.4	mg/kg	0.1	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	1	Fluoranthene	2.5	mg/kg	0.1	284410.8	210600.1	72200	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Benzo[k]fluoranthene	0.41	mg/kg	0.1	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	1	Acenaphthylene	< 0.1	mg/kg	0.1	284410.8	210600.1	83600	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Chrysene	1.3	mg/kg	0.1	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	1	Benzo[a]pyrene	0.76	mg/kg	0.1	284410.8	210600.1	76.3	NO	NO	0.01	POINT (284410.81 210600.05)
TP02	231.44	1	Dibenz(a,h)Anthracene	0.14	mg/kg	0.1	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	1	Benzo[a]anthracene	1.1	mg/kg	0.1	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	1	Cyanide (Total)	< 0.5	mg/kg	0.5	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	1	Benzene	< 0.001	mg/kg	0.001	284410.8	210600.1	12.5	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Lead	47	mg/kg	0.5	284410.8	210600.1	2310	NO	NO	0.02	POINT (284410.81 210600.05)
TP02	231.44	1	Mercury	0.13	mg/kg	0.1	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	1	Nickel	18	mg/kg	0.5	284410.8	210600.1	1770	NO	NO	0.01	POINT (284410.81 210600.05)
TP02	231.44	1	Arsenic	17	mg/kg	1	284410.8	210600.1	635	NO	NO	0.03	POINT (284410.81 210600.05)
TP02	231.44	1	Boron (Hot Water Soluble)	< 0.4	mg/kg	0.4	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	1	Cadmium	0.34	mg/kg	0.1	284410.8	210600.1	410	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Chromium	5.5	mg/kg	1	284410.8	210600.1	208000	NO	NO	0	POINT (284410.81 210600.05)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
TP02	231.44	1	Copper	62	mg/kg	0.5	284410.8	210600.1	106000	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Zinc	150	mg/kg	0.5	284410.8	210600.1	1100000	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Selenium	1.7	mg/kg	0.2	284410.8	210600.1	13000	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Acenaphthene	< 0.1	mg/kg	0.1	284410.8	210600.1	83600	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Phenanthrene	2.6	mg/kg	0.1	284410.8	210600.1	535000	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Fluorene	< 0.1	mg/kg	0.1	284410.8	210600.1	66500	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Naphthalene	< 0.1	mg/kg	0.1	284410.8	210600.1	90.1	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	o-Xylene	< 0.001	mg/kg	0.001	284410.8	210600.1	3030	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Total Phenols	< 0.1	mg/kg	0.1	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	1	Total Of 16 PAH's	14	mg/kg	2	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	1	Aromatic TPH >C7-C8	< 1.0	mg/kg	1	284410.8	210600.1	27900	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Aromatic TPH >C8-C10	< 1.0	mg/kg	1	284410.8	210600.1	2210	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Aromatic TPH >C10-C12	< 1.0	mg/kg	1	284410.8	210600.1	12300	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Aromatic TPH >C12-C16	< 1.0	mg/kg	1	284410.8	210600.1	41300	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Aromatic TPH >C16-C21	< 1.0	mg/kg	1	284410.8	210600.1	28400	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Aromatic TPH >C21-C35	2300	mg/kg	1	284410.8	210600.1	28400	NO	NO	0.08	POINT (284410.81 210600.05)
TP02	231.44	1	Aromatic TPH >C35-C44	< 1.0	mg/kg	1	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	1	m & p-Xylene	< 0.001	mg/kg	0.001	284410.8	210600.1	2720	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Aliphatic TPH >C5-C6	< 1.0	mg/kg	1	284410.8	210600.1	4490	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Aliphatic TPH >C6-C8	< 1.0	mg/kg	1	284410.8	210600.1	10400	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Aliphatic TPH >C8-C10	< 1.0	mg/kg	1	284410.8	210600.1	1370	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Aliphatic TPH >C10-C12	< 1.0	mg/kg	1	284410.8	210600.1	7900	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Aliphatic TPH >C12-C16	< 1.0	mg/kg	1	284410.8	210600.1	34000	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Aliphatic TPH >C16-C21	< 1.0	mg/kg	1	284410.8	210600.1	3620000	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Aliphatic TPH >C21-C35	3700	mg/kg	1	284410.8	210600.1	3620000	NO	NO	0	POINT (284410.81 210600.05)
TP02	231.44	1	Aliphatic TPH >C35-C44	< 1.0	mg/kg	1	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	1	Aromatic TPH >C5-C7	< 1.0	mg/kg	1	284410.8	210600.1	12.5	NO	NO	0.08	POINT (284410.81 210600.05)
TP02	231.44	1	Total Petroleum Hydrocarbor	6000	mg/kg	10	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	1	Total Aliphatic Hydrocarbons	3700	mg/kg	5	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	1	Total Aromatic Hydrocarbons	2300	mg/kg	5	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
BH29	230.74	0.2	Asbestos Identification	os Detected	-	0	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	2	Asbestos Identification	os Detected	-	0	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH30	239.1	0.2	Asbestos Identification	os Detected	-	0	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH33	230.51	0.2	Asbestos Identification	os Detected	-	0	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
S1-BH101	241.16	2.7	Asbestos Identification	os Detected	-	0	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	4.5	Asbestos Identification	os Detected	-	0	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Asbestos Identification	os Detected	-	0	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	9.5	Asbestos Identification	os Detected	-	0	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Asbestos Identification	os Detected	-	0	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	1	Asbestos Identification	os Detected	-	0	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH102	230.73	0.2	Asbestos Identification	os Detected	-	0	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.5	Asbestos Identification	os Detected	-	0	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH103	234.33	0.3	Asbestos Identification	os Detected	-	0	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Asbestos Identification	os Detected	-	0	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	Asbestos Identification	os Detected	-	0	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH105	236.49	0.2	Asbestos Identification	os Detected	-	0	284719	210649.9		NO	NO		POINT (284718.99 210649.88)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-BH105	236.49	1.7	Asbestos Identification	os Detected	-	0	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	2.7	Asbestos Identification	os Detected	-	0	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Asbestos Identification	os Detected	-	0	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.7	Asbestos Identification	os Detected	-	0	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	9.6	Asbestos Identification	os Detected	-	0	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH106	241.27	0.2	Asbestos Identification	os Detected	-	0	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	Asbestos Identification	os Detected	-	0	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	5.5	Asbestos Identification	os Detected	-	0	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	8.5	Asbestos Identification	os Detected	-	0	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Asbestos Identification	os Detected	-	0	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH107	229.89	1	Asbestos Identification	os Detected	-	0	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	5	Asbestos Identification	os Detected	-	0	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	0.3	Asbestos Identification	os Detected	-	0	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH108	231.95	0.3	Asbestos Identification	os Detected	-	0	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH109	236.37	0.2	Asbestos Identification	os Detected	-	0	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	3.7	Asbestos Identification	os Detected	-	0	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	6.7	Asbestos Identification	os Detected	-	0	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	Asbestos Identification	os Detected	-	0	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.7	Asbestos Identification	os Detected	-	0	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH110	234.05	0.3	Asbestos Identification	os Detected	-	0	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	Asbestos Identification	os Detected	-	0	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.6	Asbestos Identification	os Detected	-	0	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH112	237.94	3.7	Asbestos Identification	os Detected	-	0	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	0.5	Asbestos Identification	os Detected	-	0	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH113	236.95	0.5	Asbestos Identification	os Detected	-	0	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH114	228.51	0.2	Asbestos Identification	os Detected	-	0	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Asbestos Identification	os Detected	-	0	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	1.7	Asbestos Identification	os Detected	-	0	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH116	237.25	2.7	Asbestos Identification	os Detected	-	0	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	4.5	Asbestos Identification	os Detected	-	0	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.2	Asbestos Identification	os Detected	-	0	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	0.9	Asbestos Identification	os Detected	-	0	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH121	230.88	1.2	Asbestos Identification	os Detected	-	0	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Asbestos Identification	os Detected	-	0	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH122	230.82	0.2	Asbestos Identification	os Detected	-	0	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	2	Asbestos Identification	os Detected	-	0	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-TP111	231.25	0.2	Asbestos Identification	os Detected	-	0	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.4	Asbestos Identification	os Detected	-	0	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP112	232.16	1.5	Asbestos Identification	os Detected	-	0	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.2	Asbestos Identification	os Detected	-	0	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Asbestos Identification	os Detected	-	0	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP113	233	0.2	Asbestos Identification	os Detected	-	0	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Asbestos Identification	os Detected	-	0	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.9	Asbestos Identification	os Detected	-	0	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP114	239.99	0.1	Asbestos Identification	os Detected	-	0	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.3	Asbestos Identification	os Detected	-	0	284975	210562.9		NO	NO		POINT (284975.01 210562.92)

Appendix I.1

Table 2 Soil Screening Results

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC (Commercial Land Use)	LOD above GAC	GAC Exceedance	Relative Exceedance	Geometry
S1-TP114	239.99	0.9	Asbestos Identification	os Detected	-	0	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP115	230.63	0.2	Asbestos Identification	os Detected	-	0	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.5	Asbestos Identification	os Detected	-	0	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
TP01	229.98	0.2	Asbestos Identification	os Detected	-	0	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP01	229.98	1	Asbestos Identification	os Detected	-	0	284246.9	210516		NO	NO		POINT (284246.92 210515.99)
TP02	231.44	0.3	Asbestos Identification	os Detected	-	0	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)
TP02	231.44	1	Asbestos Identification	os Detected	-	0	284410.8	210600.1		NO	NO		POINT (284410.81 210600.05)

K.2 Leachate Screening EQS/DWS

Appendix I.2

Table 1 Leachate Results Screened Against DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH30	239.1	0.2	1		Cyanide (Total)	< 0.05	mg/l	0.05	284925.7	210549.4	0.05	NO	NO	1	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Total Phenols	< 0.03	mg/l	0.03	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Anthracene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Pyrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Fluoranthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Acenaphthylene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Chrysene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4	1.00E-05	NO	NO	1	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Lead (Dissolved)	< 0.0005	mg/l	0.0005	284925.7	210549.4	0.01	NO	NO	0.05	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284925.7	210549.4	0.001	NO	NO	0.05	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284925.7	210549.4	0.02	NO	NO	0.02	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Arsenic (Dissolved)	0.00067	mg/l	0.0002	284925.7	210549.4	0.01	NO	NO	0.07	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284925.7	210549.4	0.005	NO	NO	0.02	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Chromium (Total)	< 0.0005	mg/l	0.0005	284925.7	210549.4	0.05	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Copper (Dissolved)	0.001	mg/l	0.0005	284925.7	210549.4	2	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Selenium (Dissolved)	0.00068	mg/l	0.0005	284925.7	210549.4	0.01	NO	NO	0.07	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Acenaphthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Phenanthrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Fluorene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Naphthalene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH33	230.51	0.2	1		Cyanide (Total)	0.14	mg/l	0.05	284397	210700.9	0.05	NO	YES	2.8	POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Total Phenols	< 0.03	mg/l	0.03	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Anthracene	0.0014	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Pyrene	0.0046	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Benzo[b]fluoranthene	0.0022	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Fluoranthene	0.0054	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Benzo[k]fluoranthene	0.0011	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Acenaphthylene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Chrysene	0.0014	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Benzo[a]pyrene	0.0018	mg/l	1.00E-05	284397	210700.9	1.00E-05	NO	YES	180	POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Benzo[a]anthracene	0.0024	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Lead (Dissolved)	< 0.0005	mg/l	0.0005	284397	210700.9	0.01	NO	NO	0.05	POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284397	210700.9	0.001	NO	NO	0.05	POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Nickel (Dissolved)	0.0022	mg/l	0.0005	284397	210700.9	0.02	NO	NO	0.11	POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284397	210700.9	0.01	NO	NO	0.02	POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284397	210700.9	0.005	NO	NO	0.02	POINT (284397.04 210700.88)

Appendix I.2

Table 1 Leachate Results Screened Against DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH33	230.51	0.2	1		Chromium (Total)	0.004	mg/l	0.0005	284397	210700.9	0.05	NO	NO	0.08	POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Copper (Dissolved)	0.003	mg/l	0.0005	284397	210700.9	2	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284397	210700.9	0.01	NO	NO	0.05	POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Acenaphthene	0.0013	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Phenanthrene	0.0051	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Fluorene	0.00093	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Naphthalene	0.00067	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Total Of 16 PAH's	0.028	mg/l	0.0002	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
S1-BH101	241.16	7.5	109	13/12/2022	Sulphate	7	mg/l	1	284925.4	210692	250	NO	NO	0.03	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284925.4	210692	0.05	NO	NO	1	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Total Phenols	< 0.03	mg/l	0.03	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692	0.01	NO	NO	0.05	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284925.4	210692	0.001	NO	NO	0.05	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692	0.02	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Arsenic (Dissolved)	0.00024	mg/l	0.0002	284925.4	210692	0.01	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284925.4	210692	0.005	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692	0.05	NO	NO	0.01	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692	2	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Selenium (Dissolved)	0.00066	mg/l	0.0005	284925.4	210692	0.01	NO	NO	0.07	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Sulphate	< 1.0	mg/l	1	284925.4	210692	250	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284925.4	210692	0.05	NO	NO	1	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Total Phenols	< 0.03	mg/l	0.03	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Lead (Dissolved)	0.0019	mg/l	0.0005	284925.4	210692	0.01	NO	NO	0.19	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284925.4	210692	0.001	NO	NO	0.05	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Nickel (Dissolved)	0.00065	mg/l	0.0005	284925.4	210692	0.02	NO	NO	0.03	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Arsenic (Dissolved)	0.0021	mg/l	0.0002	284925.4	210692	0.01	NO	NO	0.21	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284925.4	210692	0.005	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692	0.05	NO	NO	0.01	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Copper (Dissolved)	0.0037	mg/l	0.0005	284925.4	210692	2	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Zinc (Dissolved)	0.009	mg/l	0.0025	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Selenium (Dissolved)	0.0022	mg/l	0.0005	284925.4	210692	0.01	NO	NO	0.22	POINT (284925.38 210692.01)
S1-BH102	230.73	0.2	1	11/11/2022	Sulphate	15	mg/l	1	284544.5	210695.4	250	NO	NO	0.06	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284544.5	210695.4	0.05	NO	NO	1	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Total Phenols	< 0.03	mg/l	0.03	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.01	NO	NO	0.05	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284544.5	210695.4	0.001	NO	NO	0.05	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.02	NO	NO	0.02	POINT (284544.49 210695.4)

Appendix I.2

Table 1 Leachate Results Screened Against DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH102	230.73	0.2	1	11/11/2022	Arsenic (Dissolved)	0.00021	mg/l	0.0002	284544.5	210695.4	0.01	NO	NO	0.02	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284544.5	210695.4	0.005	NO	NO	0.02	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.05	NO	NO	0.01	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	2	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Zinc (Dissolved)	0.0049	mg/l	0.0025	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Selenium (Dissolved)	0.00066	mg/l	0.0005	284544.5	210695.4	0.01	NO	NO	0.07	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Sulphate	< 1.0	mg/l	1	284544.5	210695.4	250	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284544.5	210695.4	0.05	NO	NO	1	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Total Phenols	< 0.03	mg/l	0.03	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.01	NO	NO	0.05	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284544.5	210695.4	0.001	NO	NO	0.05	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Nickel (Dissolved)	0.0013	mg/l	0.0005	284544.5	210695.4	0.02	NO	NO	0.06	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Arsenic (Dissolved)	0.0035	mg/l	0.0002	284544.5	210695.4	0.01	NO	NO	0.35	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284544.5	210695.4	0.005	NO	NO	0.02	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.05	NO	NO	0.01	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Copper (Dissolved)	0.00064	mg/l	0.0005	284544.5	210695.4	2	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Zinc (Dissolved)	0.0073	mg/l	0.0025	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.01	NO	NO	0.05	POINT (284544.49 210695.4)
S1-BH103	234.33	1	103	22/11/2022	Sulphate	36	mg/l	1	284603.2	210646.5	250	NO	NO	0.14	POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284603.2	210646.5	0.05	NO	NO	1	POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Total Phenols	< 0.03	mg/l	0.03	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.01	NO	NO	0.05	POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284603.2	210646.5	0.001	NO	NO	0.05	POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Nickel (Dissolved)	0.0045	mg/l	0.0005	284603.2	210646.5	0.02	NO	NO	0.23	POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Arsenic (Dissolved)	0.00074	mg/l	0.0002	284603.2	210646.5	0.01	NO	NO	0.07	POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284603.2	210646.5	0.005	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.05	NO	NO	0.01	POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	2	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Selenium (Dissolved)	0.0014	mg/l	0.0005	284603.2	210646.5	0.01	NO	NO	0.14	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Sulphate	35	mg/l	1	284603.2	210646.5	250	NO	NO	0.14	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284603.2	210646.5	0.05	NO	NO	1	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Total Phenols	< 0.03	mg/l	0.03	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.01	NO	NO	0.05	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284603.2	210646.5	0.001	NO	NO	0.05	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.02	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Arsenic (Dissolved)	0.00046	mg/l	0.0002	284603.2	210646.5	0.01	NO	NO	0.05	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284603.2	210646.5	0.005	NO	NO	0.02	POINT (284603.15 210646.48)

Appendix I.2

Table 1 Leachate Results Screened Against DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH103	234.33	2.2	107	24/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.05	NO	NO	0.01	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	2	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Selenium (Dissolved)	0.0037	mg/l	0.0005	284603.2	210646.5	0.01	NO	NO	0.37	POINT (284603.15 210646.48)
S1-BH105	236.49	0.2	1	30/11/2022	Sulphate	32	mg/l	1	284719	210649.9	250	NO	NO	0.13	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284719	210649.9	0.05	NO	NO	1	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Total Phenols	< 0.03	mg/l	0.03	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.01	NO	NO	0.05	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284719	210649.9	0.001	NO	NO	0.05	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Nickel (Dissolved)	0.0035	mg/l	0.0005	284719	210649.9	0.02	NO	NO	0.18	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Arsenic (Dissolved)	0.001	mg/l	0.0002	284719	210649.9	0.01	NO	NO	0.1	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284719	210649.9	0.005	NO	NO	0.02	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.05	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	2	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Selenium (Dissolved)	0.0012	mg/l	0.0005	284719	210649.9	0.01	NO	NO	0.12	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Sulphate	9.8	mg/l	1	284719	210649.9	250	NO	NO	0.04	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284719	210649.9	0.05	NO	NO	1	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Total Phenols	< 0.03	mg/l	0.03	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.01	NO	NO	0.05	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284719	210649.9	0.001	NO	NO	0.05	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Nickel (Dissolved)	0.00082	mg/l	0.0005	284719	210649.9	0.02	NO	NO	0.04	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Arsenic (Dissolved)	0.00028	mg/l	0.0002	284719	210649.9	0.01	NO	NO	0.03	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284719	210649.9	0.005	NO	NO	0.02	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.05	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Copper (Dissolved)	0.00061	mg/l	0.0005	284719	210649.9	2	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Zinc (Dissolved)	0.003	mg/l	0.0025	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.01	NO	NO	0.05	POINT (284718.99 210649.88)
S1-BH106	241.27	2.5	104	21/12/2022	Sulphate	9.7	mg/l	1	284928.6	210637.4	250	NO	NO	0.04	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284928.6	210637.4	0.05	NO	NO	1	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Total Phenols	< 0.03	mg/l	0.03	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284928.6	210637.4	0.01	NO	NO	0.05	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284928.6	210637.4	0.001	NO	NO	0.05	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284928.6	210637.4	0.02	NO	NO	0.02	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Arsenic (Dissolved)	0.00035	mg/l	0.0002	284928.6	210637.4	0.01	NO	NO	0.03	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284928.6	210637.4	0.005	NO	NO	0.02	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284928.6	210637.4	0.05	NO	NO	0.01	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284928.6	210637.4	2	NO	NO	0	POINT (284928.61 210637.41)

Appendix I.2

Table 1 Leachate Results Screened Against DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH106	241.27	2.5	104	21/12/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Zinc (Dissolved)	0.0026	mg/l	0.0025	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Selenium (Dissolved)	0.001	mg/l	0.0005	284928.6	210637.4	0.01	NO	NO	0.1	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Sulphate	6.6	mg/l	1	284928.6	210637.4	250	NO	NO	0.03	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284928.6	210637.4	0.05	NO	NO	1	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Total Phenols	< 0.03	mg/l	0.03	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284928.6	210637.4	0.01	NO	NO	0.05	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284928.6	210637.4	0.001	NO	NO	0.05	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284928.6	210637.4	0.02	NO	NO	0.02	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284928.6	210637.4	0.01	NO	NO	0.02	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284928.6	210637.4	0.005	NO	NO	0.02	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284928.6	210637.4	0.05	NO	NO	0.01	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284928.6	210637.4	2	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Selenium (Dissolved)	0.00065	mg/l	0.0005	284928.6	210637.4	0.01	NO	NO	0.06	POINT (284928.61 210637.41)
S1-BH107	229.89	1	101	06/12/2022	Sulphate	2.5	mg/l	1	284280.5	210636.4	250	NO	NO	0.01	POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284280.5	210636.4	0.05	NO	NO	1	POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Total Phenols	< 0.03	mg/l	0.03	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Lead (Dissolved)	0.0016	mg/l	0.0005	284280.5	210636.4	0.01	NO	NO	0.16	POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284280.5	210636.4	0.001	NO	NO	0.05	POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Nickel (Dissolved)	0.0022	mg/l	0.0005	284280.5	210636.4	0.02	NO	NO	0.11	POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Arsenic (Dissolved)	0.0019	mg/l	0.0002	284280.5	210636.4	0.01	NO	NO	0.19	POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284280.5	210636.4	0.005	NO	NO	0.02	POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Chromium (Dissolved)	0.0011	mg/l	0.0005	284280.5	210636.4	0.05	NO	NO	0.02	POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Copper (Dissolved)	0.0039	mg/l	0.0005	284280.5	210636.4	2	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Vanadium (Dissolved)	0.0016	mg/l	0.0005	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Zinc (Dissolved)	0.0062	mg/l	0.0025	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Selenium (Dissolved)	0.0011	mg/l	0.0005	284280.5	210636.4	0.01	NO	NO	0.11	POINT (284280.5 210636.35)
S1-BH108	231.95	0.3	1	17/11/2022	Sulphate	15	mg/l	1	284415.1	210632	250	NO	NO	0.06	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284415.1	210632	0.05	NO	NO	1	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Total Phenols	< 0.03	mg/l	0.03	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284415.1	210632	0.01	NO	NO	0.05	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284415.1	210632	0.001	NO	NO	0.05	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Nickel (Dissolved)	0.00063	mg/l	0.0005	284415.1	210632	0.02	NO	NO	0.03	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Arsenic (Dissolved)	0.00044	mg/l	0.0002	284415.1	210632	0.01	NO	NO	0.04	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284415.1	210632	0.005	NO	NO	0.02	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284415.1	210632	0.05	NO	NO	0.01	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Copper (Dissolved)	0.0017	mg/l	0.0005	284415.1	210632	2	NO	NO	0	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284415.1	210632		NO	NO		POINT (284415.11 210631.95)

Appendix I.2

Table 1 Leachate Results Screened Against DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH108	231.95	0.3	1	17/11/2022	Selenium (Dissolved)	0.0013	mg/l	0.0005	284415.1	210632	0.01	NO	NO	0.13	POINT (284415.11 210631.95)
S1-BH109	236.37	0.2	1	06/12/2022	Sulphate	6.8	mg/l	1	284752.2	210629.6	250	NO	NO	0.03	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284752.2	210629.6	0.05	NO	NO	1	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Total Phenols	< 0.03	mg/l	0.03	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284752.2	210629.6	0.01	NO	NO	0.05	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284752.2	210629.6	0.001	NO	NO	0.05	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284752.2	210629.6	0.02	NO	NO	0.02	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Arsenic (Dissolved)	0.00042	mg/l	0.0002	284752.2	210629.6	0.01	NO	NO	0.04	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284752.2	210629.6	0.005	NO	NO	0.02	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Chromium (Dissolved)	0.00073	mg/l	0.0005	284752.2	210629.6	0.05	NO	NO	0.01	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Copper (Dissolved)	0.0006	mg/l	0.0005	284752.2	210629.6	2	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Selenium (Dissolved)	0.00098	mg/l	0.0005	284752.2	210629.6	0.01	NO	NO	0.1	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Sulphate	1.8	mg/l	1	284752.2	210629.6	250	NO	NO	0.01	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284752.2	210629.6	0.05	NO	NO	1	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Total Phenols	< 0.03	mg/l	0.03	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284752.2	210629.6	0.01	NO	NO	0.05	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284752.2	210629.6	0.001	NO	NO	0.05	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284752.2	210629.6	0.02	NO	NO	0.02	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Arsenic (Dissolved)	0.00029	mg/l	0.0002	284752.2	210629.6	0.01	NO	NO	0.03	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284752.2	210629.6	0.005	NO	NO	0.02	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284752.2	210629.6	0.05	NO	NO	0.01	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Copper (Dissolved)	0.00081	mg/l	0.0005	284752.2	210629.6	2	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Selenium (Dissolved)	0.00056	mg/l	0.0005	284752.2	210629.6	0.01	NO	NO	0.06	POINT (284752.18 210629.62)
S1-BH110	234.05	0.3	1	16/11/2022	Sulphate	9.1	mg/l	1	284595.1	210619.9	250	NO	NO	0.04	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284595.1	210619.9	0.05	NO	NO	1	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Total Phenols	< 0.03	mg/l	0.03	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284595.1	210619.9	0.01	NO	NO	0.05	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284595.1	210619.9	0.001	NO	NO	0.05	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Nickel (Dissolved)	0.00081	mg/l	0.0005	284595.1	210619.9	0.02	NO	NO	0.04	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Arsenic (Dissolved)	0.0011	mg/l	0.0002	284595.1	210619.9	0.01	NO	NO	0.11	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284595.1	210619.9	0.005	NO	NO	0.02	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284595.1	210619.9	0.05	NO	NO	0.01	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284595.1	210619.9	2	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Zinc (Dissolved)	0.0025	mg/l	0.0025	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Selenium (Dissolved)	0.001	mg/l	0.0005	284595.1	210619.9	0.01	NO	NO	0.1	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Sulphate	6.6	mg/l	1	284595.1	210619.9	250	NO	NO	0.03	POINT (284595.14 210619.88)

Appendix I.2

Table 1 Leachate Results Screened Against DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH110	234.05	1.8	102	18/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284595.1	210619.9	0.05	NO	NO	1	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Total Phenols	< 0.03	mg/l	0.03	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284595.1	210619.9	0.01	NO	NO	0.05	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284595.1	210619.9	0.001	NO	NO	0.05	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284595.1	210619.9	0.02	NO	NO	0.02	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284595.1	210619.9	0.01	NO	NO	0.02	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284595.1	210619.9	0.005	NO	NO	0.02	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284595.1	210619.9	0.05	NO	NO	0.01	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284595.1	210619.9	2	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284595.1	210619.9	0.01	NO	NO	0.05	POINT (284595.14 210619.88)
S1-BH112	237.94	1.5	102	15/12/2022	Sulphate	8.6	mg/l	1	284882.1	210600	250	NO	NO	0.03	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284882.1	210600	0.05	NO	NO	1	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Total Phenols	< 0.03	mg/l	0.03	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600	0.01	NO	NO	0.05	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284882.1	210600	0.001	NO	NO	0.05	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600	0.02	NO	NO	0.02	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Arsenic (Dissolved)	0.00022	mg/l	0.0002	284882.1	210600	0.01	NO	NO	0.02	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284882.1	210600	0.005	NO	NO	0.02	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600	0.05	NO	NO	0.01	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600	2	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Zinc (Dissolved)	0.0073	mg/l	0.0025	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600	0.01	NO	NO	0.05	POINT (284882.07 210599.97)
S1-BH114	228.51	0.2	1	25/11/2022	Sulphate	< 1.0	mg/l	1	284194.9	210572.3	250	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284194.9	210572.3	0.05	NO	NO	1	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Total Phenols	< 0.03	mg/l	0.03	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284194.9	210572.3	0.01	NO	NO	0.05	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284194.9	210572.3	0.001	NO	NO	0.05	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284194.9	210572.3	0.02	NO	NO	0.02	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Arsenic (Dissolved)	0.00041	mg/l	0.0002	284194.9	210572.3	0.01	NO	NO	0.04	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284194.9	210572.3	0.005	NO	NO	0.02	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284194.9	210572.3	0.05	NO	NO	0.01	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Copper (Dissolved)	0.0014	mg/l	0.0005	284194.9	210572.3	2	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284194.9	210572.3	0.01	NO	NO	0.05	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Sulphate	3.6	mg/l	1	284194.9	210572.3	250	NO	NO	0.01	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284194.9	210572.3	0.05	NO	NO	1	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)

Appendix I.2

Table 1 Leachate Results Screened Against DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH114	228.51	0.7	101	29/11/2022	Total Phenols	< 0.03	mg/l	0.03	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Lead (Dissolved)	0.00072	mg/l	0.0005	284194.9	210572.3	0.01	NO	NO	0.07	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284194.9	210572.3	0.001	NO	NO	0.05	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284194.9	210572.3	0.02	NO	NO	0.02	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Arsenic (Dissolved)	0.0015	mg/l	0.0002	284194.9	210572.3	0.01	NO	NO	0.15	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284194.9	210572.3	0.005	NO	NO	0.02	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Chromium (Dissolved)	0.00054	mg/l	0.0005	284194.9	210572.3	0.05	NO	NO	0.01	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Copper (Dissolved)	0.0015	mg/l	0.0005	284194.9	210572.3	2	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Vanadium (Dissolved)	0.00097	mg/l	0.0005	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Selenium (Dissolved)	0.00052	mg/l	0.0005	284194.9	210572.3	0.01	NO	NO	0.05	POINT (284194.89 210572.28)
S1-BH116	237.25	2.7	104	13/12/2022	Sulphate	4.3	mg/l	1	284845.8	210624.4	250	NO	NO	0.02	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284845.8	210624.4	0.05	NO	NO	1	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Total Phenols	< 0.03	mg/l	0.03	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284845.8	210624.4	0.01	NO	NO	0.05	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284845.8	210624.4	0.001	NO	NO	0.05	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284845.8	210624.4	0.02	NO	NO	0.02	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Arsenic (Dissolved)	0.00091	mg/l	0.0002	284845.8	210624.4	0.01	NO	NO	0.09	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284845.8	210624.4	0.005	NO	NO	0.02	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284845.8	210624.4	0.05	NO	NO	0.01	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284845.8	210624.4	2	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Selenium (Dissolved)	0.0025	mg/l	0.0005	284845.8	210624.4	0.01	NO	NO	0.25	POINT (284845.78 210624.37)
S1-BH121	230.88	0.5	2	08/11/2022	Sulphate	2.2	mg/l	1	284475.7	210703	250	NO	NO	0.01	POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284475.7	210703	0.05	NO	NO	1	POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Total Phenols	< 0.03	mg/l	0.03	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	0.01	NO	NO	0.05	POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284475.7	210703	0.001	NO	NO	0.05	POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Nickel (Dissolved)	0.0017	mg/l	0.0005	284475.7	210703	0.02	NO	NO	0.08	POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Arsenic (Dissolved)	0.00079	mg/l	0.0002	284475.7	210703	0.01	NO	NO	0.08	POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284475.7	210703	0.005	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	0.05	NO	NO	0.01	POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Copper (Dissolved)	0.00053	mg/l	0.0005	284475.7	210703	2	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Selenium (Dissolved)	0.0011	mg/l	0.0005	284475.7	210703	0.01	NO	NO	0.11	POINT (284475.72 210703)
S1-BH122	230.82	0.2	1	09/11/2022	Sulphate	1.1	mg/l	1	284632.9	210701.3	250	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284632.9	210701.3	0.05	NO	NO	1	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Total Phenols	< 0.03	mg/l	0.03	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)

Appendix I.2

Table 1 Leachate Results Screened Against DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH122	230.82	0.2	1	09/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.01	NO	NO	0.05	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284632.9	210701.3	0.001	NO	NO	0.05	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.02	NO	NO	0.02	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284632.9	210701.3	0.01	NO	NO	0.02	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284632.9	210701.3	0.005	NO	NO	0.02	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.05	NO	NO	0.01	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	2	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.01	NO	NO	0.05	POINT (284632.9 210701.3)
S1-TP111	231.25	0.2	1	15/11/2022	Sulphate	25	mg/l	1	284432.8	210649.5	250	NO	NO	0.1	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284432.8	210649.5	0.05	NO	NO	1	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Total Phenols	< 0.03	mg/l	0.03	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Lead (Dissolved)	0.0028	mg/l	0.0005	284432.8	210649.5	0.01	NO	NO	0.28	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284432.8	210649.5	0.001	NO	NO	0.05	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Nickel (Dissolved)	0.0026	mg/l	0.0005	284432.8	210649.5	0.02	NO	NO	0.13	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Arsenic (Dissolved)	0.0046	mg/l	0.0002	284432.8	210649.5	0.01	NO	NO	0.46	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284432.8	210649.5	0.005	NO	NO	0.02	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Chromium (Dissolved)	0.0019	mg/l	0.0005	284432.8	210649.5	0.05	NO	NO	0.04	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Copper (Dissolved)	0.0033	mg/l	0.0005	284432.8	210649.5	2	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Vanadium (Dissolved)	0.0042	mg/l	0.0005	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Zinc (Dissolved)	0.0071	mg/l	0.0025	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Selenium (Dissolved)	0.00092	mg/l	0.0005	284432.8	210649.5	0.01	NO	NO	0.09	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Sulphate	16	mg/l	1	284432.8	210649.5	250	NO	NO	0.06	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284432.8	210649.5	0.05	NO	NO	1	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Total Phenols	< 0.03	mg/l	0.03	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284432.8	210649.5	0.01	NO	NO	0.05	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284432.8	210649.5	0.001	NO	NO	0.05	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Nickel (Dissolved)	0.0019	mg/l	0.0005	284432.8	210649.5	0.02	NO	NO	0.1	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Arsenic (Dissolved)	0.0005	mg/l	0.0002	284432.8	210649.5	0.01	NO	NO	0.05	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284432.8	210649.5	0.005	NO	NO	0.02	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284432.8	210649.5	0.05	NO	NO	0.01	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Copper (Dissolved)	0.005	mg/l	0.0005	284432.8	210649.5	2	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Zinc (Dissolved)	0.0058	mg/l	0.0025	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284432.8	210649.5	0.01	NO	NO	0.05	POINT (284432.79 210649.48)
S1-TP112	232.16	0.9	8	15/11/2022	Sulphate	9.1	mg/l	1	284486.6	210626.2	250	NO	NO	0.04	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284486.6	210626.2	0.05	NO	NO	1	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Total Phenols	< 0.03	mg/l	0.03	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284486.6	210626.2	0.01	NO	NO	0.05	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284486.6	210626.2	0.001	NO	NO	0.05	POINT (284486.56 210626.19)

Appendix I.2

Table 1 Leachate Results Screened Against DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-TP112	232.16	0.9	8	15/11/2022	Nickel (Dissolved)	0.00093	mg/l	0.0005	284486.6	210626.2	0.02	NO	NO	0.05	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Arsenic (Dissolved)	0.00049	mg/l	0.0002	284486.6	210626.2	0.01	NO	NO	0.05	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284486.6	210626.2	0.005	NO	NO	0.02	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284486.6	210626.2	0.05	NO	NO	0.01	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284486.6	210626.2	2	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Zinc (Dissolved)	0.0032	mg/l	0.0025	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Selenium (Dissolved)	0.0019	mg/l	0.0005	284486.6	210626.2	0.01	NO	NO	0.19	POINT (284486.56 210626.19)
S1-TP113	233	0.5	3	09/11/2022	Sulphate	8.5	mg/l	1	284529	210618	250	NO	NO	0.03	POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284529	210618	0.05	NO	NO	1	POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Total Phenols	< 0.03	mg/l	0.03	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284529	210618	0.01	NO	NO	0.05	POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284529	210618	0.001	NO	NO	0.05	POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Nickel (Dissolved)	0.00096	mg/l	0.0005	284529	210618	0.02	NO	NO	0.05	POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Arsenic (Dissolved)	0.0032	mg/l	0.0002	284529	210618	0.01	NO	NO	0.32	POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284529	210618	0.005	NO	NO	0.02	POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284529	210618	0.05	NO	NO	0.01	POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Copper (Dissolved)	0.0014	mg/l	0.0005	284529	210618	2	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Vanadium (Dissolved)	0.0019	mg/l	0.0005	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Selenium (Dissolved)	0.0024	mg/l	0.0005	284529	210618	0.01	NO	NO	0.24	POINT (284528.96 210618.04)
S1-TP114	239.99	0.1	2	16/11/2022	Sulphate	7.1	mg/l	1	284975	210562.9	250	NO	NO	0.03	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284975	210562.9	0.05	NO	NO	1	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Total Phenols	< 0.03	mg/l	0.03	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284975	210562.9	0.01	NO	NO	0.05	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284975	210562.9	0.001	NO	NO	0.05	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Nickel (Dissolved)	0.0039	mg/l	0.0005	284975	210562.9	0.02	NO	NO	0.19	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284975	210562.9	0.01	NO	NO	0.02	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284975	210562.9	0.005	NO	NO	0.02	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284975	210562.9	0.05	NO	NO	0.01	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Copper (Dissolved)	0.0017	mg/l	0.0005	284975	210562.9	2	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Zinc (Dissolved)	0.013	mg/l	0.0025	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284975	210562.9	0.01	NO	NO	0.05	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Sulphate	15	mg/l	1	284975	210562.9	250	NO	NO	0.06	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Cyanide (Total)	0.36	mg/l	0.05	284975	210562.9	0.05	NO	YES	7.2	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Cyanide (Free)	0.36	mg/l	0.05	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Total Phenols	< 0.03	mg/l	0.03	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284975	210562.9	0.01	NO	NO	0.05	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284975	210562.9	0.001	NO	NO	0.05	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Nickel (Dissolved)	0.00079	mg/l	0.0005	284975	210562.9	0.02	NO	NO	0.04	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Arsenic (Dissolved)	0.00048	mg/l	0.0002	284975	210562.9	0.01	NO	NO	0.05	POINT (284975.01 210562.92)

Appendix I.2

Table 1 Leachate Results Screened Against DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-TP114	239.99	0.9	7	16/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284975	210562.9	0.005	NO	NO	0.02	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284975	210562.9	0.05	NO	NO	0.01	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284975	210562.9	2	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Zinc (Dissolved)	0.0026	mg/l	0.0025	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Selenium (Dissolved)	0.0025	mg/l	0.0005	284975	210562.9	0.01	NO	NO	0.25	POINT (284975.01 210562.92)
S1-TP115	230.63	0.2	1	08/11/2022	Sulphate	22	mg/l	1	284344.6	210556.7	250	NO	NO	0.09	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284344.6	210556.7	0.05	NO	NO	1	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Total Phenols	< 0.03	mg/l	0.03	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284344.6	210556.7	0.01	NO	NO	0.05	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284344.6	210556.7	0.001	NO	NO	0.05	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Nickel (Dissolved)	0.0012	mg/l	0.0005	284344.6	210556.7	0.02	NO	NO	0.06	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Arsenic (Dissolved)	0.0014	mg/l	0.0002	284344.6	210556.7	0.01	NO	NO	0.14	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284344.6	210556.7	0.005	NO	NO	0.02	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284344.6	210556.7	0.05	NO	NO	0.01	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284344.6	210556.7	2	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Selenium (Dissolved)	0.0016	mg/l	0.0005	284344.6	210556.7	0.01	NO	NO	0.16	POINT (284344.59 210556.68)
BH30	239.1	0.2	1		PAH Sum of 4 - calculated		mg/l	4.00E-05	284925.7	210549.4	0.0001	NO	NO	0.4	POINT (284925.69 210549.41)
BH33	230.51	0.2	1		PAH Sum of 4 - calculated		mg/l	4.00E-05	284397	210700.9	0.0001	NO	YES	33.2	POINT (284397.04 210700.88)
S1-BH101	241.16	7.5	109	13/12/2022	pH	7.7	-	0	284925.4	210692	6.5-9.5		NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	pH	6.5	-	0	284925.4	210692	6.5-9.5		NO		POINT (284925.38 210692.01)
S1-BH102	230.73	0.2	1	11/11/2022	pH	8.2	-	0	284544.5	210695.4	6.5-9.5		NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	pH	6.3	-	0	284544.5	210695.4	6.5-9.5		YES		POINT (284544.49 210695.4)
S1-BH103	234.33	1	103	22/11/2022	pH	7.9	-	0	284603.2	210646.5	6.5-9.5		NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	pH	8.3	-	0	284603.2	210646.5	6.5-9.5		NO		POINT (284603.15 210646.48)
S1-BH105	236.49	0.2	1	30/11/2022	pH	7.3	-	0	284719	210649.9	6.5-9.5		NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	pH	8.3	-	0	284719	210649.9	6.5-9.5		NO		POINT (284718.99 210649.88)
S1-BH106	241.27	2.5	104	21/12/2022	pH	8.8	-	0	284928.6	210637.4	6.5-9.5		NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	pH	8.9	-	0	284928.6	210637.4	6.5-9.5		NO		POINT (284928.61 210637.41)
S1-BH107	229.89	1	101	06/12/2022	pH	8.5	-	0	284280.5	210636.4	6.5-9.5		NO		POINT (284280.5 210636.35)
S1-BH108	231.95	0.3	1	17/11/2022	pH	8.3	-	0	284415.1	210632	6.5-9.5		NO		POINT (284415.11 210631.95)
S1-BH109	236.37	0.2	1	06/12/2022	pH	9.4	-	0	284752.2	210629.6	6.5-9.5		NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	pH	7.7	-	0	284752.2	210629.6	6.5-9.5		NO		POINT (284752.18 210629.62)
S1-BH110	234.05	0.3	1	16/11/2022	pH	7	-	0	284595.1	210619.9	6.5-9.5		NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	pH	8.3	-	0	284595.1	210619.9	6.5-9.5		NO		POINT (284595.14 210619.88)
S1-BH112	237.94	1.5	102	15/12/2022	pH	8.3	-	0	284882.1	210600	6.5-9.5		NO		POINT (284882.07 210599.97)
S1-BH114	228.51	0.2	1	25/11/2022	pH	7.7	-	0	284194.9	210572.3	6.5-9.5		NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	pH	8.6	-	0	284194.9	210572.3	6.5-9.5		NO		POINT (284194.89 210572.28)
S1-BH116	237.25	2.7	104	13/12/2022	pH	7.3	-	0	284845.8	210624.4	6.5-9.5		NO		POINT (284845.78 210624.37)
S1-BH121	230.88	0.5	2	08/11/2022	pH	8.8	-	0	284475.7	210703	6.5-9.5		NO		POINT (284475.72 210703)
S1-BH122	230.82	0.2	1	09/11/2022	pH	8.5	-	0	284632.9	210701.3	6.5-9.5		NO		POINT (284632.9 210701.3)
S1-TP111	231.25	0.2	1	15/11/2022	pH	6.7	-	0	284432.8	210649.5	6.5-9.5		NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	pH	6	-	0	284432.8	210649.5	6.5-9.5		YES		POINT (284432.79 210649.48)

Appendix I.2

Table 1 Leachate Results Screened Against DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-TP112	232.16	0.9	8	15/11/2022	pH	6.8	-	0	284486.6	210626.2	6.5-9.5		NO		POINT (284486.56 210626.19)
S1-TP113	233	0.5	3	09/11/2022	pH	8.4	-	0	284529	210618	6.5-9.5		NO		POINT (284528.96 210618.04)
S1-TP114	239.99	0.1	2	16/11/2022	pH	7.4	-	0	284975	210562.9	6.5-9.5		NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	pH	7.9	-	0	284975	210562.9	6.5-9.5		NO		POINT (284975.01 210562.92)
S1-TP115	230.63	0.2	1	08/11/2022	pH	8.3	-	0	284344.6	210556.7	6.5-9.5		NO		POINT (284344.59 210556.68)

Appendix I.2

Table 2 Leachate EQS Screening

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH30	239.1	0.2	1		Cyanide (Total)	< 0.05	mg/l	0.05	284925.7	210549.4	0.001	YES	NO	50	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Total Phenols	< 0.03	mg/l	0.03	284925.7	210549.4	0.0077	YES	NO	3.9	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Anthracene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4	0.0001	NO	NO	0.1	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Pyrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Fluoranthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4	6.30E-06	YES	NO	1.59	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Acenaphthylene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Chrysene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4	1.70E-07	YES	NO	58.82	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Lead (Dissolved)	< 0.0005	mg/l	0.0005	284925.7	210549.4	0.0012	NO	NO	0.42	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284925.7	210549.4	7.00E-05	NO	NO	0.71	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284925.7	210549.4	0.004	NO	NO	0.12	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Arsenic (Dissolved)	0.00067	mg/l	0.0002	284925.7	210549.4	0.05	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284925.7	210549.4	8.00E-05	YES	NO	1.38	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Chromium (Total)	< 0.0005	mg/l	0.0005	284925.7	210549.4	0.0047	NO	NO	0.11	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Copper (Dissolved)	0.001	mg/l	0.0005	284925.7	210549.4	0.001	NO	NO	1	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284925.7	210549.4	0.014	NO	NO	0.18	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Selenium (Dissolved)	0.00068	mg/l	0.0005	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Acenaphthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Phenanthrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Fluorene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Naphthalene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4	0.002	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	1		Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH33	230.51	0.2	1		Cyanide (Total)	0.14	mg/l	0.05	284397	210700.9	0.001	YES	YES	140	POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Total Phenols	< 0.03	mg/l	0.03	284397	210700.9	0.0077	YES	NO	3.9	POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Anthracene	0.0014	mg/l	1.00E-05	284397	210700.9	0.0001	NO	YES	14	POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Pyrene	0.0046	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Benzo[b]fluoranthene	0.0022	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Fluoranthene	0.0054	mg/l	1.00E-05	284397	210700.9	6.30E-06	YES	YES	857.14	POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Benzo[k]fluoranthene	0.0011	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Acenaphthylene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Chrysene	0.0014	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Benzo[a]pyrene	0.0018	mg/l	1.00E-05	284397	210700.9	1.70E-07	YES	YES	10588.24	POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Benzo[a]anthracene	0.0024	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Lead (Dissolved)	< 0.0005	mg/l	0.0005	284397	210700.9	0.0012	NO	NO	0.42	POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284397	210700.9	7.00E-05	NO	NO	0.71	POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Nickel (Dissolved)	0.0022	mg/l	0.0005	284397	210700.9	0.004	NO	NO	0.55	POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284397	210700.9	0.05	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284397	210700.9	8.00E-05	YES	NO	1.38	POINT (284397.04 210700.88)

Appendix I.2

Table 2 Leachate EQS Screening

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH33	230.51	0.2	1		Chromium (Total)	0.004	mg/l	0.0005	284397	210700.9	0.0047	NO	NO	0.85	POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Copper (Dissolved)	0.003	mg/l	0.0005	284397	210700.9	0.001	NO	YES	3	POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284397	210700.9	0.014	NO	NO	0.18	POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Acenaphthene	0.0013	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Phenanthrene	0.0051	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Fluorene	0.00093	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Naphthalene	0.00067	mg/l	1.00E-05	284397	210700.9	0.002	NO	NO	0.34	POINT (284397.04 210700.88)
BH33	230.51	0.2	1		Total Of 16 PAH's	0.028	mg/l	0.0002	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
S1-BH101	241.16	7.5	109	13/12/2022	Sulphate	7	mg/l	1	284925.4	210692	400	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284925.4	210692	0.001	YES	NO	50	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284925.4	210692	0.001	YES	NO	50	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Total Phenols	< 0.03	mg/l	0.03	284925.4	210692	0.0077	YES	NO	3.9	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284925.4	210692	0.0034	YES	NO	5.88	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692	0.0012	NO	NO	0.42	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284925.4	210692	7.00E-05	NO	NO	0.71	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692	0.004	NO	NO	0.12	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Arsenic (Dissolved)	0.00024	mg/l	0.0002	284925.4	210692	0.05	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284925.4	210692	8.00E-05	YES	NO	1.38	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692	0.0047	NO	NO	0.11	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692	0.001	NO	NO	0.5	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692	0.02	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284925.4	210692	0.014	NO	NO	0.18	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	109	13/12/2022	Selenium (Dissolved)	0.00066	mg/l	0.0005	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Sulphate	< 1.0	mg/l	1	284925.4	210692	400	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284925.4	210692	0.001	YES	NO	50	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284925.4	210692	0.001	YES	NO	50	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Total Phenols	< 0.03	mg/l	0.03	284925.4	210692	0.0077	YES	NO	3.9	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284925.4	210692	0.0034	YES	NO	5.88	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Lead (Dissolved)	0.0019	mg/l	0.0005	284925.4	210692	0.0012	NO	YES	1.58	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284925.4	210692	7.00E-05	NO	NO	0.71	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Nickel (Dissolved)	0.00065	mg/l	0.0005	284925.4	210692	0.004	NO	NO	0.16	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Arsenic (Dissolved)	0.0021	mg/l	0.0002	284925.4	210692	0.05	NO	NO	0.04	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284925.4	210692	8.00E-05	YES	NO	1.38	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692	0.0047	NO	NO	0.11	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Copper (Dissolved)	0.0037	mg/l	0.0005	284925.4	210692	0.001	NO	YES	3.7	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692	0.02	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Zinc (Dissolved)	0.009	mg/l	0.0025	284925.4	210692	0.014	NO	NO	0.64	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	Selenium (Dissolved)	0.0022	mg/l	0.0005	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH102	230.73	0.2	1	11/11/2022	Sulphate	15	mg/l	1	284544.5	210695.4	400	NO	NO	0.04	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284544.5	210695.4	0.001	YES	NO	50	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284544.5	210695.4	0.001	YES	NO	50	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Total Phenols	< 0.03	mg/l	0.03	284544.5	210695.4	0.0077	YES	NO	3.9	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284544.5	210695.4	0.0034	YES	NO	5.88	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.0012	NO	NO	0.42	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284544.5	210695.4	7.00E-05	NO	NO	0.71	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.004	NO	NO	0.12	POINT (284544.49 210695.4)

Appendix I.2

Table 2 Leachate EQS Screening

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH102	230.73	0.2	1	11/11/2022	Arsenic (Dissolved)	0.00021	mg/l	0.0002	284544.5	210695.4	0.05	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284544.5	210695.4	8.00E-05	YES	NO	1.38	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.0047	NO	NO	0.11	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.001	NO	NO	0.5	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.02	NO	NO	0.02	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Zinc (Dissolved)	0.0049	mg/l	0.0025	284544.5	210695.4	0.014	NO	NO	0.35	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	1	11/11/2022	Selenium (Dissolved)	0.00066	mg/l	0.0005	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Sulphate	< 1.0	mg/l	1	284544.5	210695.4	400	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284544.5	210695.4	0.001	YES	NO	50	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284544.5	210695.4	0.001	YES	NO	50	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Total Phenols	< 0.03	mg/l	0.03	284544.5	210695.4	0.0077	YES	NO	3.9	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284544.5	210695.4	0.0034	YES	NO	5.88	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.0012	NO	NO	0.42	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284544.5	210695.4	7.00E-05	NO	NO	0.71	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Nickel (Dissolved)	0.0013	mg/l	0.0005	284544.5	210695.4	0.004	NO	NO	0.32	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Arsenic (Dissolved)	0.0035	mg/l	0.0002	284544.5	210695.4	0.05	NO	NO	0.07	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284544.5	210695.4	8.00E-05	YES	NO	1.38	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.0047	NO	NO	0.11	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Copper (Dissolved)	0.00064	mg/l	0.0005	284544.5	210695.4	0.001	NO	NO	0.64	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.02	NO	NO	0.02	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Zinc (Dissolved)	0.0073	mg/l	0.0025	284544.5	210695.4	0.014	NO	NO	0.52	POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH103	234.33	1	103	22/11/2022	Sulphate	36	mg/l	1	284603.2	210646.5	400	NO	NO	0.09	POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284603.2	210646.5	0.001	YES	NO	50	POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284603.2	210646.5	0.001	YES	NO	50	POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Total Phenols	< 0.03	mg/l	0.03	284603.2	210646.5	0.0077	YES	NO	3.9	POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284603.2	210646.5	0.0034	YES	NO	5.88	POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.0012	NO	NO	0.42	POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284603.2	210646.5	7.00E-05	NO	NO	0.71	POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Nickel (Dissolved)	0.0045	mg/l	0.0005	284603.2	210646.5	0.004	NO	YES	1.12	POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Arsenic (Dissolved)	0.00074	mg/l	0.0002	284603.2	210646.5	0.05	NO	NO	0.01	POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284603.2	210646.5	8.00E-05	YES	NO	1.38	POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.0047	NO	NO	0.11	POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.001	NO	NO	0.5	POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.02	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284603.2	210646.5	0.014	NO	NO	0.18	POINT (284603.15 210646.48)
S1-BH103	234.33	1	103	22/11/2022	Selenium (Dissolved)	0.0014	mg/l	0.0005	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Sulphate	35	mg/l	1	284603.2	210646.5	400	NO	NO	0.09	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284603.2	210646.5	0.001	YES	NO	50	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284603.2	210646.5	0.001	YES	NO	50	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Total Phenols	< 0.03	mg/l	0.03	284603.2	210646.5	0.0077	YES	NO	3.9	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284603.2	210646.5	0.0034	YES	NO	5.88	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.0012	NO	NO	0.42	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284603.2	210646.5	7.00E-05	NO	NO	0.71	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.004	NO	NO	0.12	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Arsenic (Dissolved)	0.00046	mg/l	0.0002	284603.2	210646.5	0.05	NO	NO	0.01	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284603.2	210646.5	8.00E-05	YES	NO	1.38	POINT (284603.15 210646.48)

Appendix I.2

Table 2 Leachate EQS Screening

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH103	234.33	2.2	107	24/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.0047	NO	NO	0.11	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.001	NO	NO	0.5	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.02	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284603.2	210646.5	0.014	NO	NO	0.18	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	Selenium (Dissolved)	0.0037	mg/l	0.0005	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH105	236.49	0.2	1	30/11/2022	Sulphate	32	mg/l	1	284719	210649.9	400	NO	NO	0.08	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284719	210649.9	0.001	YES	NO	50	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284719	210649.9	0.001	YES	NO	50	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Total Phenols	< 0.03	mg/l	0.03	284719	210649.9	0.0077	YES	NO	3.9	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284719	210649.9	0.0034	YES	NO	5.88	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.0012	NO	NO	0.42	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284719	210649.9	7.00E-05	NO	NO	0.71	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Nickel (Dissolved)	0.0035	mg/l	0.0005	284719	210649.9	0.004	NO	NO	0.88	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Arsenic (Dissolved)	0.001	mg/l	0.0002	284719	210649.9	0.05	NO	NO	0.02	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284719	210649.9	8.00E-05	YES	NO	1.38	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.0047	NO	NO	0.11	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.001	NO	NO	0.5	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.02	NO	NO	0.02	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284719	210649.9	0.014	NO	NO	0.18	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	1	30/11/2022	Selenium (Dissolved)	0.0012	mg/l	0.0005	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Sulphate	9.8	mg/l	1	284719	210649.9	400	NO	NO	0.02	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284719	210649.9	0.001	YES	NO	50	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284719	210649.9	0.001	YES	NO	50	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Total Phenols	< 0.03	mg/l	0.03	284719	210649.9	0.0077	YES	NO	3.9	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284719	210649.9	0.0034	YES	NO	5.88	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.0012	NO	NO	0.42	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284719	210649.9	7.00E-05	NO	NO	0.71	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Nickel (Dissolved)	0.00082	mg/l	0.0005	284719	210649.9	0.004	NO	NO	0.2	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Arsenic (Dissolved)	0.00028	mg/l	0.0002	284719	210649.9	0.05	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284719	210649.9	8.00E-05	YES	NO	1.38	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.0047	NO	NO	0.11	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Copper (Dissolved)	0.00061	mg/l	0.0005	284719	210649.9	0.001	NO	NO	0.61	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.02	NO	NO	0.02	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Zinc (Dissolved)	0.003	mg/l	0.0025	284719	210649.9	0.014	NO	NO	0.21	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH106	241.27	2.5	104	21/12/2022	Sulphate	9.7	mg/l	1	284928.6	210637.4	400	NO	NO	0.02	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284928.6	210637.4	0.001	YES	NO	50	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284928.6	210637.4	0.001	YES	NO	50	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Total Phenols	< 0.03	mg/l	0.03	284928.6	210637.4	0.0077	YES	NO	3.9	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284928.6	210637.4	0.0034	YES	NO	5.88	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284928.6	210637.4	0.0012	NO	NO	0.42	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284928.6	210637.4	7.00E-05	NO	NO	0.71	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284928.6	210637.4	0.004	NO	NO	0.12	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Arsenic (Dissolved)	0.00035	mg/l	0.0002	284928.6	210637.4	0.05	NO	NO	0.01	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284928.6	210637.4	8.00E-05	YES	NO	1.38	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284928.6	210637.4	0.0047	NO	NO	0.11	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284928.6	210637.4	0.001	NO	NO	0.5	POINT (284928.61 210637.41)

Appendix I.2

Table 2 Leachate EQS Screening

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH106	241.27	2.5	104	21/12/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284928.6	210637.4	0.02	NO	NO	0.02	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Zinc (Dissolved)	0.0026	mg/l	0.0025	284928.6	210637.4	0.014	NO	NO	0.19	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	104	21/12/2022	Selenium (Dissolved)	0.001	mg/l	0.0005	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Sulphate	6.6	mg/l	1	284928.6	210637.4	400	NO	NO	0.02	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284928.6	210637.4	0.001	YES	NO	50	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284928.6	210637.4	0.001	YES	NO	50	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Total Phenols	< 0.03	mg/l	0.03	284928.6	210637.4	0.0077	YES	NO	3.9	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284928.6	210637.4	0.0034	YES	NO	5.88	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284928.6	210637.4	0.0012	NO	NO	0.42	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284928.6	210637.4	7.00E-05	NO	NO	0.71	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284928.6	210637.4	0.004	NO	NO	0.12	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284928.6	210637.4	0.05	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284928.6	210637.4	8.00E-05	YES	NO	1.38	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284928.6	210637.4	0.0047	NO	NO	0.11	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284928.6	210637.4	0.001	NO	NO	0.5	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284928.6	210637.4	0.02	NO	NO	0.02	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284928.6	210637.4	0.014	NO	NO	0.18	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	Selenium (Dissolved)	0.00065	mg/l	0.0005	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH107	229.89	1	101	06/12/2022	Sulphate	2.5	mg/l	1	284280.5	210636.4	400	NO	NO	0.01	POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284280.5	210636.4	0.001	YES	NO	50	POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284280.5	210636.4	0.001	YES	NO	50	POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Total Phenols	< 0.03	mg/l	0.03	284280.5	210636.4	0.0077	YES	NO	3.9	POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284280.5	210636.4	0.0034	YES	NO	5.88	POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Lead (Dissolved)	0.0016	mg/l	0.0005	284280.5	210636.4	0.0012	NO	YES	1.33	POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284280.5	210636.4	7.00E-05	NO	NO	0.71	POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Nickel (Dissolved)	0.0022	mg/l	0.0005	284280.5	210636.4	0.004	NO	NO	0.55	POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Arsenic (Dissolved)	0.0019	mg/l	0.0002	284280.5	210636.4	0.05	NO	NO	0.04	POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284280.5	210636.4	8.00E-05	YES	NO	1.38	POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Chromium (Dissolved)	0.0011	mg/l	0.0005	284280.5	210636.4	0.0047	NO	NO	0.23	POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Copper (Dissolved)	0.0039	mg/l	0.0005	284280.5	210636.4	0.001	NO	YES	3.9	POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Vanadium (Dissolved)	0.0016	mg/l	0.0005	284280.5	210636.4	0.02	NO	NO	0.08	POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Zinc (Dissolved)	0.0062	mg/l	0.0025	284280.5	210636.4	0.014	NO	NO	0.44	POINT (284280.5 210636.35)
S1-BH107	229.89	1	101	06/12/2022	Selenium (Dissolved)	0.0011	mg/l	0.0005	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH108	231.95	0.3	1	17/11/2022	Sulphate	15	mg/l	1	284415.1	210632	400	NO	NO	0.04	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284415.1	210632	0.001	YES	NO	50	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284415.1	210632	0.001	YES	NO	50	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Total Phenols	< 0.03	mg/l	0.03	284415.1	210632	0.0077	YES	NO	3.9	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284415.1	210632	0.0034	YES	NO	5.88	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284415.1	210632	0.0012	NO	NO	0.42	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284415.1	210632	7.00E-05	NO	NO	0.71	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Nickel (Dissolved)	0.00063	mg/l	0.0005	284415.1	210632	0.004	NO	NO	0.16	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Arsenic (Dissolved)	0.00044	mg/l	0.0002	284415.1	210632	0.05	NO	NO	0.01	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284415.1	210632	8.00E-05	YES	NO	1.38	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284415.1	210632	0.0047	NO	NO	0.11	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Copper (Dissolved)	0.0017	mg/l	0.0005	284415.1	210632	0.001	NO	YES	1.7	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284415.1	210632	0.02	NO	NO	0.02	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	1	17/11/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284415.1	210632	0.014	NO	NO	0.18	POINT (284415.11 210631.95)

Appendix I.2

Table 2 Leachate EQS Screening

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH108	231.95	0.3	1	17/11/2022	Selenium (Dissolved)	0.0013	mg/l	0.0005	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH109	236.37	0.2	1	06/12/2022	Sulphate	6.8	mg/l	1	284752.2	210629.6	400	NO	NO	0.02	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284752.2	210629.6	0.001	YES	NO	50	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284752.2	210629.6	0.001	YES	NO	50	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Total Phenols	< 0.03	mg/l	0.03	284752.2	210629.6	0.0077	YES	NO	3.9	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284752.2	210629.6	0.0034	YES	NO	5.88	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284752.2	210629.6	0.0012	NO	NO	0.42	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284752.2	210629.6	7.00E-05	NO	NO	0.71	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284752.2	210629.6	0.004	NO	NO	0.12	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Arsenic (Dissolved)	0.00042	mg/l	0.0002	284752.2	210629.6	0.05	NO	NO	0.01	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284752.2	210629.6	8.00E-05	YES	NO	1.38	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Chromium (Dissolved)	0.00073	mg/l	0.0005	284752.2	210629.6	0.0047	NO	NO	0.16	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Copper (Dissolved)	0.0006	mg/l	0.0005	284752.2	210629.6	0.001	NO	NO	0.6	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284752.2	210629.6	0.02	NO	NO	0.02	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284752.2	210629.6	0.014	NO	NO	0.18	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	1	06/12/2022	Selenium (Dissolved)	0.00098	mg/l	0.0005	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Sulphate	1.8	mg/l	1	284752.2	210629.6	400	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284752.2	210629.6	0.001	YES	NO	50	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284752.2	210629.6	0.001	YES	NO	50	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Total Phenols	< 0.03	mg/l	0.03	284752.2	210629.6	0.0077	YES	NO	3.9	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284752.2	210629.6	0.0034	YES	NO	5.88	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284752.2	210629.6	0.0012	NO	NO	0.42	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284752.2	210629.6	7.00E-05	NO	NO	0.71	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284752.2	210629.6	0.004	NO	NO	0.12	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Arsenic (Dissolved)	0.00029	mg/l	0.0002	284752.2	210629.6	0.05	NO	NO	0.01	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284752.2	210629.6	8.00E-05	YES	NO	1.38	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284752.2	210629.6	0.0047	NO	NO	0.11	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Copper (Dissolved)	0.00081	mg/l	0.0005	284752.2	210629.6	0.001	NO	NO	0.81	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284752.2	210629.6	0.02	NO	NO	0.02	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284752.2	210629.6	0.014	NO	NO	0.18	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	Selenium (Dissolved)	0.00056	mg/l	0.0005	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH110	234.05	0.3	1	16/11/2022	Sulphate	9.1	mg/l	1	284595.1	210619.9	400	NO	NO	0.02	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284595.1	210619.9	0.001	YES	NO	50	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284595.1	210619.9	0.001	YES	NO	50	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Total Phenols	< 0.03	mg/l	0.03	284595.1	210619.9	0.0077	YES	NO	3.9	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284595.1	210619.9	0.0034	YES	NO	5.88	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284595.1	210619.9	0.0012	NO	NO	0.42	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284595.1	210619.9	7.00E-05	NO	NO	0.71	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Nickel (Dissolved)	0.00081	mg/l	0.0005	284595.1	210619.9	0.004	NO	NO	0.2	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Arsenic (Dissolved)	0.0011	mg/l	0.0002	284595.1	210619.9	0.05	NO	NO	0.02	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284595.1	210619.9	8.00E-05	YES	NO	1.38	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284595.1	210619.9	0.0047	NO	NO	0.11	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284595.1	210619.9	0.001	NO	NO	0.5	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284595.1	210619.9	0.02	NO	NO	0.02	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Zinc (Dissolved)	0.0025	mg/l	0.0025	284595.1	210619.9	0.014	NO	NO	0.18	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	1	16/11/2022	Selenium (Dissolved)	0.001	mg/l	0.0005	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Sulphate	6.6	mg/l	1	284595.1	210619.9	400	NO	NO	0.02	POINT (284595.14 210619.88)

Appendix I.2

Table 2 Leachate EQS Screening

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH110	234.05	1.8	102	18/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284595.1	210619.9	0.001	YES	NO	50	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284595.1	210619.9	0.001	YES	NO	50	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Total Phenols	< 0.03	mg/l	0.03	284595.1	210619.9	0.0077	YES	NO	3.9	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284595.1	210619.9	0.0034	YES	NO	5.88	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284595.1	210619.9	0.0012	NO	NO	0.42	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284595.1	210619.9	7.00E-05	NO	NO	0.71	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284595.1	210619.9	0.004	NO	NO	0.12	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284595.1	210619.9	0.05	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284595.1	210619.9	8.00E-05	YES	NO	1.38	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284595.1	210619.9	0.0047	NO	NO	0.11	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284595.1	210619.9	0.001	NO	NO	0.5	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284595.1	210619.9	0.02	NO	NO	0.02	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284595.1	210619.9	0.014	NO	NO	0.18	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH112	237.94	1.5	102	15/12/2022	Sulphate	8.6	mg/l	1	284882.1	210600	400	NO	NO	0.02	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284882.1	210600	0.001	YES	NO	50	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284882.1	210600	0.001	YES	NO	50	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Total Phenols	< 0.03	mg/l	0.03	284882.1	210600	0.0077	YES	NO	3.9	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284882.1	210600	0.0034	YES	NO	5.88	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600	0.0012	NO	NO	0.42	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284882.1	210600	7.00E-05	NO	NO	0.71	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600	0.004	NO	NO	0.12	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Arsenic (Dissolved)	0.00022	mg/l	0.0002	284882.1	210600	0.05	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284882.1	210600	8.00E-05	YES	NO	1.38	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600	0.0047	NO	NO	0.11	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600	0.001	NO	NO	0.5	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600	0.02	NO	NO	0.02	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Zinc (Dissolved)	0.0073	mg/l	0.0025	284882.1	210600	0.014	NO	NO	0.52	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	102	15/12/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH114	228.51	0.2	1	25/11/2022	Sulphate	< 1.0	mg/l	1	284194.9	210572.3	400	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284194.9	210572.3	0.001	YES	NO	50	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284194.9	210572.3	0.001	YES	NO	50	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Total Phenols	< 0.03	mg/l	0.03	284194.9	210572.3	0.0077	YES	NO	3.9	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284194.9	210572.3	0.0034	YES	NO	5.88	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284194.9	210572.3	0.0012	NO	NO	0.42	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284194.9	210572.3	7.00E-05	NO	NO	0.71	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284194.9	210572.3	0.004	NO	NO	0.12	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Arsenic (Dissolved)	0.00041	mg/l	0.0002	284194.9	210572.3	0.05	NO	NO	0.01	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284194.9	210572.3	8.00E-05	YES	NO	1.38	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284194.9	210572.3	0.0047	NO	NO	0.11	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Copper (Dissolved)	0.0014	mg/l	0.0005	284194.9	210572.3	0.001	NO	YES	1.4	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284194.9	210572.3	0.02	NO	NO	0.02	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284194.9	210572.3	0.014	NO	NO	0.18	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	1	25/11/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Sulphate	3.6	mg/l	1	284194.9	210572.3	400	NO	NO	0.01	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284194.9	210572.3	0.001	YES	NO	50	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284194.9	210572.3	0.001	YES	NO	50	POINT (284194.89 210572.28)

Appendix I.2

Table 2 Leachate EQS Screening

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH114	228.51	0.7	101	29/11/2022	Total Phenols	< 0.03	mg/l	0.03	284194.9	210572.3	0.0077	YES	NO	3.9	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284194.9	210572.3	0.0034	YES	NO	5.88	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Lead (Dissolved)	0.00072	mg/l	0.0005	284194.9	210572.3	0.0012	NO	NO	0.6	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284194.9	210572.3	7.00E-05	NO	NO	0.71	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284194.9	210572.3	0.004	NO	NO	0.12	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Arsenic (Dissolved)	0.0015	mg/l	0.0002	284194.9	210572.3	0.05	NO	NO	0.03	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284194.9	210572.3	8.00E-05	YES	NO	1.38	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Chromium (Dissolved)	0.00054	mg/l	0.0005	284194.9	210572.3	0.0047	NO	NO	0.11	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Copper (Dissolved)	0.0015	mg/l	0.0005	284194.9	210572.3	0.001	NO	YES	1.5	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Vanadium (Dissolved)	0.00097	mg/l	0.0005	284194.9	210572.3	0.02	NO	NO	0.05	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284194.9	210572.3	0.014	NO	NO	0.18	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	Selenium (Dissolved)	0.00052	mg/l	0.0005	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH116	237.25	2.7	104	13/12/2022	Sulphate	4.3	mg/l	1	284845.8	210624.4	400	NO	NO	0.01	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284845.8	210624.4	0.001	YES	NO	50	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284845.8	210624.4	0.001	YES	NO	50	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Total Phenols	< 0.03	mg/l	0.03	284845.8	210624.4	0.0077	YES	NO	3.9	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284845.8	210624.4	0.0034	YES	NO	5.88	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284845.8	210624.4	0.0012	NO	NO	0.42	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284845.8	210624.4	7.00E-05	NO	NO	0.71	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284845.8	210624.4	0.004	NO	NO	0.12	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Arsenic (Dissolved)	0.00091	mg/l	0.0002	284845.8	210624.4	0.05	NO	NO	0.02	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284845.8	210624.4	8.00E-05	YES	NO	1.38	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284845.8	210624.4	0.0047	NO	NO	0.11	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284845.8	210624.4	0.001	NO	NO	0.5	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284845.8	210624.4	0.02	NO	NO	0.02	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284845.8	210624.4	0.014	NO	NO	0.18	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	104	13/12/2022	Selenium (Dissolved)	0.0025	mg/l	0.0005	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH121	230.88	0.5	2	08/11/2022	Sulphate	2.2	mg/l	1	284475.7	210703	400	NO	NO	0.01	POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284475.7	210703	0.001	YES	NO	50	POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284475.7	210703	0.001	YES	NO	50	POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Total Phenols	< 0.03	mg/l	0.03	284475.7	210703	0.0077	YES	NO	3.9	POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284475.7	210703	0.0034	YES	NO	5.88	POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	0.0012	NO	NO	0.42	POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284475.7	210703	7.00E-05	NO	NO	0.71	POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Nickel (Dissolved)	0.0017	mg/l	0.0005	284475.7	210703	0.004	NO	NO	0.42	POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Arsenic (Dissolved)	0.00079	mg/l	0.0002	284475.7	210703	0.05	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284475.7	210703	8.00E-05	YES	NO	1.38	POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	0.0047	NO	NO	0.11	POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Copper (Dissolved)	0.00053	mg/l	0.0005	284475.7	210703	0.001	NO	NO	0.53	POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	0.02	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284475.7	210703	0.014	NO	NO	0.18	POINT (284475.72 210703)
S1-BH121	230.88	0.5	2	08/11/2022	Selenium (Dissolved)	0.0011	mg/l	0.0005	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH122	230.82	0.2	1	09/11/2022	Sulphate	1.1	mg/l	1	284632.9	210701.3	400	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284632.9	210701.3	0.001	YES	NO	50	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284632.9	210701.3	0.001	YES	NO	50	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Total Phenols	< 0.03	mg/l	0.03	284632.9	210701.3	0.0077	YES	NO	3.9	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284632.9	210701.3	0.0034	YES	NO	5.88	POINT (284632.9 210701.3)

Appendix I.2

Table 2 Leachate EQS Screening

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH122	230.82	0.2	1	09/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.0012	NO	NO	0.42	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284632.9	210701.3	7.00E-05	NO	NO	0.71	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.004	NO	NO	0.12	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284632.9	210701.3	0.05	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284632.9	210701.3	8.00E-05	YES	NO	1.38	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.0047	NO	NO	0.11	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.001	NO	NO	0.5	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.02	NO	NO	0.02	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284632.9	210701.3	0.014	NO	NO	0.18	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	1	09/11/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-TP111	231.25	0.2	1	15/11/2022	Sulphate	25	mg/l	1	284432.8	210649.5	400	NO	NO	0.06	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284432.8	210649.5	0.001	YES	NO	50	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284432.8	210649.5	0.001	YES	NO	50	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Total Phenols	< 0.03	mg/l	0.03	284432.8	210649.5	0.0077	YES	NO	3.9	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284432.8	210649.5	0.0034	YES	NO	5.88	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Lead (Dissolved)	0.0028	mg/l	0.0005	284432.8	210649.5	0.0012	NO	YES	2.33	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284432.8	210649.5	7.00E-05	NO	NO	0.71	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Nickel (Dissolved)	0.0026	mg/l	0.0005	284432.8	210649.5	0.004	NO	NO	0.65	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Arsenic (Dissolved)	0.0046	mg/l	0.0002	284432.8	210649.5	0.05	NO	NO	0.09	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284432.8	210649.5	8.00E-05	YES	NO	1.38	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Chromium (Dissolved)	0.0019	mg/l	0.0005	284432.8	210649.5	0.0047	NO	NO	0.4	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Copper (Dissolved)	0.0033	mg/l	0.0005	284432.8	210649.5	0.001	NO	YES	3.3	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Vanadium (Dissolved)	0.0042	mg/l	0.0005	284432.8	210649.5	0.02	NO	NO	0.21	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Zinc (Dissolved)	0.0071	mg/l	0.0025	284432.8	210649.5	0.014	NO	NO	0.51	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	1	15/11/2022	Selenium (Dissolved)	0.00092	mg/l	0.0005	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Sulphate	16	mg/l	1	284432.8	210649.5	400	NO	NO	0.04	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284432.8	210649.5	0.001	YES	NO	50	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284432.8	210649.5	0.001	YES	NO	50	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Total Phenols	< 0.03	mg/l	0.03	284432.8	210649.5	0.0077	YES	NO	3.9	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284432.8	210649.5	0.0034	YES	NO	5.88	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284432.8	210649.5	0.0012	NO	NO	0.42	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284432.8	210649.5	7.00E-05	NO	NO	0.71	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Nickel (Dissolved)	0.0019	mg/l	0.0005	284432.8	210649.5	0.004	NO	NO	0.48	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Arsenic (Dissolved)	0.0005	mg/l	0.0002	284432.8	210649.5	0.05	NO	NO	0.01	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284432.8	210649.5	8.00E-05	YES	NO	1.38	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284432.8	210649.5	0.0047	NO	NO	0.11	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Copper (Dissolved)	0.005	mg/l	0.0005	284432.8	210649.5	0.001	NO	YES	5	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284432.8	210649.5	0.02	NO	NO	0.02	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Zinc (Dissolved)	0.0058	mg/l	0.0025	284432.8	210649.5	0.014	NO	NO	0.41	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP112	232.16	0.9	8	15/11/2022	Sulphate	9.1	mg/l	1	284486.6	210626.2	400	NO	NO	0.02	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284486.6	210626.2	0.001	YES	NO	50	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284486.6	210626.2	0.001	YES	NO	50	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Total Phenols	< 0.03	mg/l	0.03	284486.6	210626.2	0.0077	YES	NO	3.9	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284486.6	210626.2	0.0034	YES	NO	5.88	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284486.6	210626.2	0.0012	NO	NO	0.42	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284486.6	210626.2	7.00E-05	NO	NO	0.71	POINT (284486.56 210626.19)

Appendix I.2

Table 2 Leachate EQS Screening

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-TP112	232.16	0.9	8	15/11/2022	Nickel (Dissolved)	0.00093	mg/l	0.0005	284486.6	210626.2	0.004	NO	NO	0.23	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Arsenic (Dissolved)	0.00049	mg/l	0.0002	284486.6	210626.2	0.05	NO	NO	0.01	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284486.6	210626.2	8.00E-05	YES	NO	1.38	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284486.6	210626.2	0.0047	NO	NO	0.11	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284486.6	210626.2	0.001	NO	NO	0.5	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284486.6	210626.2	0.02	NO	NO	0.02	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Zinc (Dissolved)	0.0032	mg/l	0.0025	284486.6	210626.2	0.014	NO	NO	0.23	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	8	15/11/2022	Selenium (Dissolved)	0.0019	mg/l	0.0005	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP113	233	0.5	3	09/11/2022	Sulphate	8.5	mg/l	1	284529	210618	400	NO	NO	0.02	POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284529	210618	0.001	YES	NO	50	POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284529	210618	0.001	YES	NO	50	POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Total Phenols	< 0.03	mg/l	0.03	284529	210618	0.0077	YES	NO	3.9	POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284529	210618	0.0034	YES	NO	5.88	POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284529	210618	0.0012	NO	NO	0.42	POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284529	210618	7.00E-05	NO	NO	0.71	POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Nickel (Dissolved)	0.00096	mg/l	0.0005	284529	210618	0.004	NO	NO	0.24	POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Arsenic (Dissolved)	0.0032	mg/l	0.0002	284529	210618	0.05	NO	NO	0.06	POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284529	210618	8.00E-05	YES	NO	1.38	POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284529	210618	0.0047	NO	NO	0.11	POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Copper (Dissolved)	0.0014	mg/l	0.0005	284529	210618	0.001	NO	YES	1.4	POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Vanadium (Dissolved)	0.0019	mg/l	0.0005	284529	210618	0.02	NO	NO	0.1	POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284529	210618	0.014	NO	NO	0.18	POINT (284528.96 210618.04)
S1-TP113	233	0.5	3	09/11/2022	Selenium (Dissolved)	0.0024	mg/l	0.0005	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP114	239.99	0.1	2	16/11/2022	Sulphate	7.1	mg/l	1	284975	210562.9	400	NO	NO	0.02	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284975	210562.9	0.001	YES	NO	50	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284975	210562.9	0.001	YES	NO	50	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Total Phenols	< 0.03	mg/l	0.03	284975	210562.9	0.0077	YES	NO	3.9	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284975	210562.9	0.0034	YES	NO	5.88	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284975	210562.9	0.0012	NO	NO	0.42	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284975	210562.9	7.00E-05	NO	NO	0.71	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Nickel (Dissolved)	0.0039	mg/l	0.0005	284975	210562.9	0.004	NO	NO	0.98	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284975	210562.9	0.05	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284975	210562.9	8.00E-05	YES	NO	1.38	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284975	210562.9	0.0047	NO	NO	0.11	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Copper (Dissolved)	0.0017	mg/l	0.0005	284975	210562.9	0.001	NO	YES	1.7	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284975	210562.9	0.02	NO	NO	0.02	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Zinc (Dissolved)	0.013	mg/l	0.0025	284975	210562.9	0.014	NO	NO	0.93	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	2	16/11/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Sulphate	15	mg/l	1	284975	210562.9	400	NO	NO	0.04	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Cyanide (Total)	0.36	mg/l	0.05	284975	210562.9	0.001	YES	YES	360	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Cyanide (Free)	0.36	mg/l	0.05	284975	210562.9	0.001	YES	YES	360	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Total Phenols	< 0.03	mg/l	0.03	284975	210562.9	0.0077	YES	NO	3.9	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284975	210562.9	0.0034	YES	NO	5.88	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284975	210562.9	0.0012	NO	NO	0.42	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284975	210562.9	7.00E-05	NO	NO	0.71	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Nickel (Dissolved)	0.00079	mg/l	0.0005	284975	210562.9	0.004	NO	NO	0.2	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Arsenic (Dissolved)	0.00048	mg/l	0.0002	284975	210562.9	0.05	NO	NO	0.01	POINT (284975.01 210562.92)

Appendix I.2

Table 2 Leachate EQS Screening

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-TP114	239.99	0.9	7	16/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284975	210562.9	8.00E-05	YES	NO	1.38	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284975	210562.9	0.0047	NO	NO	0.11	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284975	210562.9	0.001	NO	NO	0.5	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284975	210562.9	0.02	NO	NO	0.02	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Zinc (Dissolved)	0.0026	mg/l	0.0025	284975	210562.9	0.014	NO	NO	0.19	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	Selenium (Dissolved)	0.0025	mg/l	0.0005	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP115	230.63	0.2	1	08/11/2022	Sulphate	22	mg/l	1	284344.6	210556.7	400	NO	NO	0.06	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284344.6	210556.7	0.001	YES	NO	50	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284344.6	210556.7	0.001	YES	NO	50	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Total Phenols	< 0.03	mg/l	0.03	284344.6	210556.7	0.0077	YES	NO	3.9	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284344.6	210556.7	0.0034	YES	NO	5.88	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284344.6	210556.7	0.0012	NO	NO	0.42	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284344.6	210556.7	7.00E-05	NO	NO	0.71	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Nickel (Dissolved)	0.0012	mg/l	0.0005	284344.6	210556.7	0.004	NO	NO	0.3	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Arsenic (Dissolved)	0.0014	mg/l	0.0002	284344.6	210556.7	0.05	NO	NO	0.03	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284344.6	210556.7	8.00E-05	YES	NO	1.38	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284344.6	210556.7	0.0047	NO	NO	0.11	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284344.6	210556.7	0.001	NO	NO	0.5	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284344.6	210556.7	0.02	NO	NO	0.02	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284344.6	210556.7	0.014	NO	NO	0.18	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	1	08/11/2022	Selenium (Dissolved)	0.0016	mg/l	0.0005	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
BH30	239.1	0.2	1		PAH Sum of 4 - calculated		mg/l	4.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH33	230.51	0.2	1		PAH Sum of 4 - calculated		mg/l	4.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
S1-BH101	241.16	7.5	109	13/12/2022	pH	7.7	-	0	284925.4	210692	6.0-9.0		NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	2	09/12/2022	pH	6.5	-	0	284925.4	210692	6.0-9.0		NO		POINT (284925.38 210692.01)
S1-BH102	230.73	0.2	1	11/11/2022	pH	8.2	-	0	284544.5	210695.4	6.0-9.0		NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	101	15/11/2022	pH	6.3	-	0	284544.5	210695.4	6.0-9.0		NO		POINT (284544.49 210695.4)
S1-BH103	234.33	1	103	22/11/2022	pH	7.9	-	0	284603.2	210646.5	6.0-9.0		NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	107	24/11/2022	pH	8.3	-	0	284603.2	210646.5	6.0-9.0		NO		POINT (284603.15 210646.48)
S1-BH105	236.49	0.2	1	30/11/2022	pH	7.3	-	0	284719	210649.9	6.0-9.0		NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	104	01/12/2022	pH	8.3	-	0	284719	210649.9	6.0-9.0		NO		POINT (284718.99 210649.88)
S1-BH106	241.27	2.5	104	21/12/2022	pH	8.8	-	0	284928.6	210637.4	6.0-9.0		NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	3	20/12/2022	pH	8.9	-	0	284928.6	210637.4	6.0-9.0		NO		POINT (284928.61 210637.41)
S1-BH107	229.89	1	101	06/12/2022	pH	8.5	-	0	284280.5	210636.4	6.0-9.0		NO		POINT (284280.5 210636.35)
S1-BH108	231.95	0.3	1	17/11/2022	pH	8.3	-	0	284415.1	210632	6.0-9.0		NO		POINT (284415.11 210631.95)
S1-BH109	236.37	0.2	1	06/12/2022	pH	9.4	-	0	284752.2	210629.6	6.0-9.0		YES		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	112	12/12/2022	pH	7.7	-	0	284752.2	210629.6	6.0-9.0		NO		POINT (284752.18 210629.62)
S1-BH110	234.05	0.3	1	16/11/2022	pH	7	-	0	284595.1	210619.9	6.0-9.0		NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	102	18/11/2022	pH	8.3	-	0	284595.1	210619.9	6.0-9.0		NO		POINT (284595.14 210619.88)
S1-BH112	237.94	1.5	102	15/12/2022	pH	8.3	-	0	284882.1	210600	6.0-9.0		NO		POINT (284882.07 210599.97)
S1-BH114	228.51	0.2	1	25/11/2022	pH	7.7	-	0	284194.9	210572.3	6.0-9.0		NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	101	29/11/2022	pH	8.6	-	0	284194.9	210572.3	6.0-9.0		NO		POINT (284194.89 210572.28)
S1-BH116	237.25	2.7	104	13/12/2022	pH	7.3	-	0	284845.8	210624.4	6.0-9.0		NO		POINT (284845.78 210624.37)
S1-BH121	230.88	0.5	2	08/11/2022	pH	8.8	-	0	284475.7	210703	6.0-9.0		NO		POINT (284475.72 210703)
S1-BH122	230.82	0.2	1	09/11/2022	pH	8.5	-	0	284632.9	210701.3	6.0-9.0		NO		POINT (284632.9 210701.3)
S1-TP111	231.25	0.2	1	15/11/2022	pH	6.7	-	0	284432.8	210649.5	6.0-9.0		NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	6	15/11/2022	pH	6	-	0	284432.8	210649.5	6.0-9.0		NO		POINT (284432.79 210649.48)

Appendix I.2

Table 2 Leachate EQS Screening

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-TP112	232.16	0.9	8	15/11/2022	pH	6.8	-	0	284486.6	210626.2	6.0-9.0		NO		POINT (284486.56 210626.19)
S1-TP113	233	0.5	3	09/11/2022	pH	8.4	-	0	284529	210618	6.0-9.0		NO		POINT (284528.96 210618.04)
S1-TP114	239.99	0.1	2	16/11/2022	pH	7.4	-	0	284975	210562.9	6.0-9.0		NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	7	16/11/2022	pH	7.9	-	0	284975	210562.9	6.0-9.0		NO		POINT (284975.01 210562.92)
S1-TP115	230.63	0.2	1	08/11/2022	pH	8.3	-	0	284344.6	210556.7	6.0-9.0		NO		POINT (284344.59 210556.68)

Assessment Criteria :	Freshwater EQS
CaCO (mg/l):	0.00
pH	7.66
Calcium (mg/l):	21.00
DOC (mg/l)	2.01
Catchment area:	Freshwater not listed

Constituents	Unit	Limit of Detection	Generic Assessment Criteria	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	Location	Sample ID	Depth	Date	Strata	Zone
pH			6-9	28	5.9	11.4	5	S2-TP2112; S2-TP294; S2-TP279; S2-BH240; S2-TP284	S2-BH244	1617210	1m	30-Mar-23		
									S2-BH244	1617212	5.3m	30-Mar-23		
									S2-BH244	1617214	8.3m	30-Mar-23		
									S2-TP276	1617231	3.9m	30-Mar-23		
									S2-TP2101	1618220	0.2m	31-Mar-23		
									S2-TP2112	1618226	0.2m	31-Mar-23		
									S2-BH246	1618236	1.5m	31-Mar-23		
									S2-TP294	1619733	0.9m	04-Apr-23		
									S2-TP261	1619740	2.9m	04-Apr-23		
									S2-TP266	1619844	0.9m	04-Apr-23		
									S2-BH245	1620719	0.9m	05-Apr-23		
									S2-TP263	1620730	0.2m	05-Apr-23		
									S2-BH245	1620750	3.6m	06-Apr-23		
									S2-TP271	1621898	0.2m	11-Apr-23		
									S2-TP270	1621904	0.9m	11-Apr-23		
									S2-BH250	1621924	0.2m	11-Apr-23		
									S2-TP2110	1622822	0.2m	11-Apr-23		
									S2-BH252	1622828	0.5m	11-Apr-23		
									S2-TP2115	1623100	0.2m	12-Apr-23		
									S2-BH261	1625747	0.9m	17-Apr-23		
									S2-BH250	1630912	1.5m	26-Apr-23		
									S2-TP279	1631394	0.5m	26-Apr-23		
									S2-TP242	1630858	0.2m	25-Apr-23		
									S2-BH240	1636095	1.2m	04-May-23		
									S2-TP2104	1638420	0.2m	10-May-23		
									S2-TP284	1638426	0.2m	10-May-23		
									S2-TP2108	1639309	0.5m	11-May-23		
									S2-TP256	1639550	0.2m	12-May-23		
	mg/l	1.0	400	28	<1	47	0			1.3	3.7	2.9	2.7	6.7	45	<1	3.6	2.4	17	<1	23	6.2	6	14	1.3	36	12	1.9	1.1	2.2	43	1.5	9.4	47	14	13	2.3
Cyanide (Total)	mg/l	0.050	N/A	28	<0.05	<0.05	0			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Cyanide (Free)	mg/l	0.050	0.001	28	<0.05	<0.05	0			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic (Dissolved)	mg/l	0.0002	0.05	28	<0.0002	0.0068	0			0.00085	0.00058	<0.0002	0.00032	0.00025	0.0005	0.0014	0.0068	0.00073	0.0006	0.00065	0.0013	<0.0002	0.0019	0.00074	0.001	<0.0002	0.00081	0.0007	0.00061	0.0045	0.00026	0.00024	0.0013	0.00031	0.0035	0.0005	0.00037
Cadmium (Dissolved)	mg/l	0.00011	0.00008	28	<0.00011	<0.00011	0			<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011
Chromium (Dissolved)	mg/l	0.0005	See Cr VI as first pass	28	<0.0005	0.0047	0			0.00069	<0.0005	0.0006	<0.0005	0.00079	0.0016	<0.0005	0.0047	<0.0005	<0.0005	0.00062	0.00089	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00051	0.00058	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Copper (Dissolved)	mg/l	0.0005	0.001	28	<0.0005	0.013	13	S2-TP294; S2-TP261; S2-BH245; S2-TP270; S2-BH250; S2-BH252; S2-TP2115; S2-BH261; S2-BH250; S2-TP279; S2-BH240; S2-TP284; S2-TP256		0.00056	0.00073	0.00083	0.00075	0.00061	0.00075	<0.0005	0.013	0.0012	<0.0005	0.0025	<0.0005	<0.0005	0.00099	0.0014	0.0012	<0.0005	0.0013	0.0018	0.0026	0.0021	0.0051	0.00065	0.0011	0.00071	0.0048	0.00089	0.0014
Mercury (Dissolved)	mg/l	0.00005	0.00007	28	<0.00005	<0.00005	0			<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Nickel (Dissolved)	mg/l	0.0005	0.004	28	<0.0005	0.0021	0			<0.0005	<0.0005	0.00071	0.00061	<0.0005	<0.0005	<0.0005	0.0019	0.0011	0.0021	0.0013	0.00056	0.00064	<0.0005	<0.0005	<0.0005	<0.0005	0.00067	0.00059	0.00076	0.00094	0.00073	0.00069	<0.0005	<0.0005	0.00074	<0.0005	0.001
Lead (Dissolved)	mg/l	0.0005	0.0012	28	<0.0005	0.0069	2	S2-TP294; S2-BH250		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0069	0.00065	<0.0005	0.00092	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0012	0.0021	0.0011	<0.0005	<0.0005	0.00064	<0.0005	0.00073
Selenium (Dissolved)	mg/l	0.0005	N/A	28	<0.0005	0.0032	0			<0.0005	0.00098	0.00069	0.00071	0.00067	0.0032	0.00074	0.0016	<0.0005	0.0012	<0.0005	0.0018	<0.0005	0.0012	<0.0005	<0.0005	<0.0005	0.0008	<0.0005	<0.0005	<0.0005	0.0012	<0.0005	0.00055	<0.0005	<0.0005	0.00082	0.00057
Vanadium (Dissolved)	mg/l	0.0005	0.02	28	<0.0005	0.012	0			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0077	<0.0005	0.012	<0.0005	<0.0005	0.00053	0.00056	<0.0005	0.0011	<0.0005	<0.0005	<0.0005	<0.0005	0.00064	<0.0005	0.0065	0.0026	0.00053	0.001	<0.0005	<0.0005	<0.0005	<0.0005
Zinc (Dissolved)	mg/l	0.0025	0.0123	28	<0.0025	0.025	8	S2-TP271; S2-TP270; S2-BH250; S2-BH252; S2-BH250; S2-TP279; S2-TP242; S2-BH240		0.003	<0.0025	0.0072	0.0053	0.0039	0.0027	0.0032	0.0096	<0.0025	<0.0025	0.0042	<0.0025	<0.0025	0.023	0.024	0.023	0.0043	0.023	0.0055	0.0071	0.025	0.014	0.022	0.022	0.0028	0.0026	0.004	0.0049
Chromium (Hexavalent)	mg/l	0.02	0.0034	28	<0.02	<0.02	0			<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Total Phenols	mg/l	0.030	No WSV	28	<0.03	<0.03	0			<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03

Assessment Criteria :	Drinking Water Standard England and Wales/WHO
CaCO (mg/l):	0.00
pH	7.66
Calcium (mg/l):	21.00
DOC (mg/l)	2.01
Catchment area:	Freshwater not listed

Constituents	Unit	Limit of Detection	Generic Assessment Criteria	Number of Samples	Minimum Value	Maximum Value	Number of Exceedences	Locations of Exceedences	Location	Sample ID	Depth	Date	Strata	Zone
pH			6.5-9.5	28	5.9	11.4	4	S2-TP294; S2-TP279; S2-BH240; S2-TP284	S2-BH244	1617210	1m	30-Mar-23		
									S2-BH244	1617212	5.3m	30-Mar-23		
									S2-BH244	1617214	8.3m	30-Mar-23		
									S2-TP276	1617231	3.9m	30-Mar-23		
									S2-TP2101	1618220	0.2m	31-Mar-23		
									S2-TP2112	1618226	0.2m	31-Mar-23		
									S2-BH246	1618236	1.5m	31-Mar-23		
									S2-TP294	1619733	0.9m	04-Apr-23		
									S2-TP261	1619740	2.9m	04-Apr-23		
									S2-TP266	1619844	0.9m	04-Apr-23		
									S2-BH245	1620719	0.9m	05-Apr-23		
									S2-TP263	1620730	0.2m	05-Apr-23		
									S2-BH245	1620750	3.6m	06-Apr-23		
									S2-TP271	1621898	0.2m	11-Apr-23		
									S2-TP270	1621904	0.9m	11-Apr-23		
									S2-BH250	1621924	0.2m	11-Apr-23		
									S2-TP2110	1622822	0.2m	11-Apr-23		
									S2-BH252	1622828	0.5m	11-Apr-23		
									S2-TP2115	1623100	0.2m	12-Apr-23		
									S2-BH261	1625747	0.9m	17-Apr-23		
									S2-BH250	1630912	1.5m	26-Apr-23		
									S2-TP279	1631394	0.5m	26-Apr-23		
									S2-TP242	1630858	0.2m	25-Apr-23		
									S2-BH240	1636095	1.2m	04-May-23		
									S2-TP2104	1638420	0.2m	10-May-23		
									S2-TP284	1638426	0.2m	10-May-23		
									S2-TP2108	1639309	0.5m	11-May-23		
									S2-TP256	1639550	0.2m	12-May-23		
Sulphate	mg/l	1.0	250	28	<1	47	0							
Cyanide (Total)	mg/l	0.050	0.05	28	<0.05	<0.05	0							
Cyanide (Free)	mg/l	0.050	See Cyanide (total)	28	<0.05	<0.05	0							
Arsenic (Dissolved)	mg/l	0.0002	0.01	28	<0.0002	0.0068	0							
Cadmium (Dissolved)	mg/l	0.00011	0.005	28	<0.00011	<0.00011	0							
Chromium (Dissolved)	mg/l	0.0005	0.05	28	<0.0005	0.0047	0							
Copper (Dissolved)	mg/l	0.0005	2	28	<0.0005	0.013	0							
Mercury (Dissolved)	mg/l	0.00005	0.001	28	<0.00005	<0.00005	0							
Nickel (Dissolved)	mg/l	0.0005	0.02	28	<0.0005	0.0021	0							
Lead (Dissolved)	mg/l	0.0005	0.01	28	<0.0005	0.0069	0							
Selenium (Dissolved)	mg/l	0.0005	0.01	28	<0.0005	0.0032	0							
Vanadium (Dissolved)	mg/l	0.0005	N/A	28	<0.0005	0.012	0							
Zinc (Dissolved)	mg/l	0.0025	3	28	<0.0025	0.025	0							
Chromium (Hexavalent)	mg/l	0.02	See Total Chromium	28	<0.02	<0.02	0							
Total Phenols	mg/l	0.030	No WSV	28	<0.03	<0.03	0							

S2-BH244	S2-BH244	S2-BH244	S2-TP276	S2-TP2101	S2-TP2112	S2-BH246	S2-TP294	S2-TP261	S2-TP266	S2-BH245	S2-TP263	S2-BH245	S2-TP271	S2-TP270	S2-BH250	S2-TP2110	S2-BH252	S2-TP2115	S2-BH261	S2-BH250	S2-TP279	S2-TP242	S2-BH240	S2-TP2104	S2-TP284	S2-TP2108	S2-TP256
1617210	1617212	1617214	1617231	1618220	1618226	1618236	1619733	1619740	1619844	1620719	1620730	1620750	1621898	1621904	1621924	1622822	1622828	1623100	1625747	1630912	1631394	1630858	1636095	1638420	1638426	1639309	1639550
1m	5.3m	8.3m	3.9m	0.2m	0.2m	1.5m	0.9m	2.9m	0.9m	0.9m	0.2m	3.6m	0.2m	0.9m	0.2m	0.2m	0.5m	0.2m	0.9m	1.5m	0.5m	0.2m	1.2m	0.2m	0.2m	0.5m	0.2m
30-Mar-23	30-Mar-23	30-Mar-23	30-Mar-23	31-Mar-23	31-Mar-23	31-Mar-23	04-Apr-23	04-Apr-23	04-Apr-23	05-Apr-23	05-Apr-23	06-Apr-23	11-Apr-23	11-Apr-23	11-Apr-23	11-Apr-23	11-Apr-23	12-Apr-23	17-Apr-23	26-Apr-23	26-Apr-23	25-Apr-23	04-May-23	10-May-23	10-May-23	11-May-23	12-May-23
7.3	6.9	6.7	6.8	7.8	9.3	7.8	5.9	8.2	7.8	6.8	7.8	7.8	6.6	6.6	6.6	6.8	6.8	8	7.4	7.8	11.4	8.2	9.7	7.5	11.2	7.4	7.4
1.3	3.7	2.9	2.7	8.7	45	<1	3.6	2.4	17	<1	23	6.2	6	14	1.3	36	12	1.9	1.1	2.2	43	1.5	9.4	47	14	13	2.3
<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0.00085	0.00058	<0.0002	0.00032	0.00025	0.0005	0.0014	0.0068	0.00073	0.0006	0.00065	0.0013	<0.0002	0.0019	0.00074	0.001	<0.0002	0.00081	0.0007	0.00061	0.0045	0.00026	0.00024	0.0013	0.00031	0.0035	0.0005	0.00037
<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011
0.00069	<0.0005	0.0006	<0.0005	0.00079	0.0016	<0.0005	0.0047	<0.0005	<0.0005	0.00062	0.00089	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00051	0.00058	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
0.00056	0.00073	0.00083	0.00075	0.00061	0.00075	<0.0005	0.013	0.0012	<0.0005	0.0025	<0.0005	<0.0005	0.00099	0.0014	0.0012	<0.0005	0.0013	0.0018	0.0026	0.0021	0.0051	0.00065	0.0011	0.00071	0.0048	0.00089	0.0014
<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
<0.0005	<0.0005	0.00071	0.00061	<0.0005	<0.0005	<0.0005	0.0019	0.0011	0.0021	0.0013	0.00056	0.00064	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00067	0.00059	0.00076	0.00094	0.00073	0.00069	<0.0005	<0.0005	0.00074	<0.0005	0.001
<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0069	0.00065	<0.0005	0.00092	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0012	0.0021	0.0011	<0.0005	<0.0005	<0.0005	0.00064	<0.0005	0.00073
<0.0005	0.00098	0.00069	0.00071	0.00067	0.0032	0.00074	0.0016	<0.0005	0.0012	<0.0005	0.0018	<0.0005	0.0012	<0.0005	<0.0005	<0.0005	0.0008	<0.0005	<0.0005	<0.0005	0.0012	<0.0005	0.00055	<0.0005	<0.0005	0.00082	0.00057
<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0077	<0.0005	0.012	<0.0005	<0.0005	0.00053	0.00056	<0.0005	0.0011	<0.0005	<0.0005	<0.0005	<0.0005	0.00064	<0.0005	0.0065	0.0026	0.00053	0.001	<0.0005	<0.0005	<0.0005	<0.0005
0.003	<0.0025	0.0072	0.0053	0.0039	0.0027	0.0032	0.0096	<0.0025	<0.0025	0.0042	<0.0025	<0.0025	0.023	0.024	0.023	0.0043	0.023	0.0055	0.0071	0.025	0.014	0.022	0.022	0.0028	0.0026	0.004	0.0049
<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03

K.3 Controlled Water Screening EQS/DWS

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH29	230.74	0.83	1		Alkalinity (Bicarbonate)	310	mg CaCO3	10	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Sulphate	6.3	mg/l	1	284719.5	210705.4	250	NO	NO	0.03	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Chloride	16	mg/l	1	284719.5	210705.4	250	NO	NO	0.06	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Fluoride	0.29	mg/l	0.05	284719.5	210705.4	1.5	NO	NO	0.19	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Cyanide (Total)	< 0.05	mg/l	0.05	284719.5	210705.4	0.05	NO	NO	1	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Magnesium	11	mg/l	0.2	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Potassium	11	mg/l	0.5	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Sodium	46	mg/l	1.5	284719.5	210705.4	200	NO	NO	0.23	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Calcium	40	mg/l	2	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Ammonia (Free)	< 0.05	mg/l	0.05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Total Phenols	< 0.03	mg/l	0.03	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Total Hardness as CaCO3	140	mg/l	15	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Nitrate	1.7	mg/l	0.5	284719.5	210705.4	50	NO	NO	0.03	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Dissolved Organic Carbon	65	mg/l	2	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Ethylbenzene	< 0.001	mg/l	0.001	284719.5	210705.4	0.3	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Toluene	< 0.001	mg/l	0.001	284719.5	210705.4	0.7	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Anthracene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Pyrene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Fluoranthene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Acenaphthylene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Chrysene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		PCB 118	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		PCB 153	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		PCB 138	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		PCB 180	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		PCB 52	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		PCB 90+101	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4	1.00E-05	NO	NO	1	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		PCB 28	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Benzene	< 0.001	mg/l	0.001	284719.5	210705.4	0.001	NO	NO	1	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Lead (Dissolved)	< 0.0005	mg/l	0.0005	284719.5	210705.4	0.01	NO	NO	0.05	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284719.5	210705.4	0.001	NO	NO	0.05	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Nickel (Dissolved)	0.0012	mg/l	0.0005	284719.5	210705.4	0.02	NO	NO	0.06	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Arsenic (Dissolved)	0.0022	mg/l	0.0002	284719.5	210705.4	0.01	NO	NO	0.22	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284719.5	210705.4	0.005	NO	NO	0.02	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284719.5	210705.4	0.05	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Copper (Dissolved)	0.00098	mg/l	0.0005	284719.5	210705.4	2	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Zinc (Dissolved)	0.016	mg/l	0.0025	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284719.5	210705.4	0.01	NO	NO	0.05	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Acenaphthene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH29	230.74	0.83	1		Phenanthrene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Fluorene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Naphthalene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		o-Xylene	< 0.001	mg/l	0.001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.7	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.3	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.09	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.09	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.09	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.09	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		m & p-Xylene	< 0.001	mg/l	0.001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284719.5	210705.4	15	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284719.5	210705.4	15	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.3	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.3	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.3	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Alkalinity (Bicarbonate)	320	mg CaCO3/	10	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Sulphate	2.1	mg/l	1	284719.5	210705.4	250	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Chloride	18	mg/l	1	284719.5	210705.4	250	NO	NO	0.07	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Fluoride	0.35	mg/l	0.05	284719.5	210705.4	1.5	NO	NO	0.23	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284719.5	210705.4	0.05	NO	NO	1	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Magnesium	11	mg/l	0.2	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Potassium	11	mg/l	0.5	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Sodium	44	mg/l	1.5	284719.5	210705.4	200	NO	NO	0.22	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Calcium	36	mg/l	2	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Ammonia (Free)	< 0.05	mg/l	0.05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Total Phenols	< 0.03	mg/l	0.03	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Total Hardness as CaCO3	140	mg/l	15	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Nitrate	< 0.5	mg/l	0.5	284719.5	210705.4	50	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Dissolved Organic Carbon	61	mg/l	2	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Ethylbenzene	< 0.001	mg/l	0.001	284719.5	210705.4	0.3	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Toluene	< 0.001	mg/l	0.001	284719.5	210705.4	0.7	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Anthracene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Pyrene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH29	230.74	0.76	2	14/03/2022	Fluoranthene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Chrysene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	PCB 118	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	PCB 153	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	PCB 138	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	PCB 180	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	PCB 52	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	PCB 90+101	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4	1.00E-05	NO	NO	1	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	PCB 28	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Benzene	< 0.001	mg/l	0.001	284719.5	210705.4	0.001	NO	NO	1	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284719.5	210705.4	0.01	NO	NO	0.05	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284719.5	210705.4	0.001	NO	NO	0.05	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Nickel (Dissolved)	0.0006	mg/l	0.0005	284719.5	210705.4	0.02	NO	NO	0.03	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Arsenic (Dissolved)	0.0011	mg/l	0.0002	284719.5	210705.4	0.01	NO	NO	0.11	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284719.5	210705.4	0.005	NO	NO	0.02	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284719.5	210705.4	0.05	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284719.5	210705.4	2	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Zinc (Dissolved)	0.0099	mg/l	0.0025	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284719.5	210705.4	0.01	NO	NO	0.05	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Acenaphthene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Phenanthrene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Fluorene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Naphthalene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	o-Xylene	< 0.001	mg/l	0.001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.7	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.3	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.09	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.09	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.09	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.09	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	m & p-Xylene	< 0.001	mg/l	0.001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284719.5	210705.4	15	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284719.5	210705.4	15	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.3	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.3	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.3	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH29	230.74	0.76	2	14/03/2022	Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH30	239.1	3.2	1		Alkalinity (Bicarbonate)	300	mg CaCO3/	10	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Sulphate	32	mg/l	1	284925.7	210549.4	250	NO	NO	0.13	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Chloride	170	mg/l	1	284925.7	210549.4	250	NO	NO	0.68	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Fluoride	0.14	mg/l	0.05	284925.7	210549.4	1.5	NO	NO	0.09	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Cyanide (Total)	< 0.05	mg/l	0.05	284925.7	210549.4	0.05	NO	NO	1	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Magnesium	16	mg/l	0.2	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Potassium	29	mg/l	0.5	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Sodium	93	mg/l	1.5	284925.7	210549.4	200	NO	NO	0.46	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Calcium	68	mg/l	2	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Ammonia (Free)	0.081	mg/l	0.05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Total Phenols	< 0.03	mg/l	0.03	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Total Hardness as CaCO3	240	mg/l	15	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Nitrate	< 0.5	mg/l	0.5	284925.7	210549.4	50	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Dissolved Organic Carbon	62	mg/l	2	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Ethylbenzene	< 0.001	mg/l	0.001	284925.7	210549.4	0.3	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Toluene	< 0.001	mg/l	0.001	284925.7	210549.4	0.7	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Anthracene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Pyrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Fluoranthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Acenaphthylene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Chrysene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		PCB 118	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		PCB 153	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		PCB 138	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		PCB 180	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		PCB 52	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		PCB 90+101	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4	1.00E-05	NO	NO	1	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		PCB 28	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Benzene	< 0.001	mg/l	0.001	284925.7	210549.4	0.001	NO	NO	1	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Lead (Dissolved)	< 0.0005	mg/l	0.0005	284925.7	210549.4	0.01	NO	NO	0.05	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284925.7	210549.4	0.001	NO	NO	0.05	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Nickel (Dissolved)	0.0024	mg/l	0.0005	284925.7	210549.4	0.02	NO	NO	0.12	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Arsenic (Dissolved)	0.00056	mg/l	0.0002	284925.7	210549.4	0.01	NO	NO	0.06	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284925.7	210549.4	0.005	NO	NO	0.02	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Chromium (Dissolved)	0.0089	mg/l	0.0005	284925.7	210549.4	0.05	NO	NO	0.18	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Copper (Dissolved)	0.0022	mg/l	0.0005	284925.7	210549.4	2	NO	NO	0	POINT (284925.69 210549.41)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH30	239.1	3.2	1		Zinc (Dissolved)	0.017	mg/l	0.0025	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284925.7	210549.4	0.01	NO	NO	0.05	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Acenaphthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Phenanthrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Fluorene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Naphthalene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		o-Xylene	< 0.001	mg/l	0.001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.7	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.3	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.09	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.09	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.09	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.09	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		m & p-Xylene	< 0.001	mg/l	0.001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284925.7	210549.4	15	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284925.7	210549.4	15	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.3	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.3	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.3	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Alkalinity (Bicarbonate)	360	mg CaCO3/	10	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Sulphate	330	mg/l	1	284925.7	210549.4	250	NO	YES	1.32	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Chloride	38	mg/l	1	284925.7	210549.4	250	NO	NO	0.15	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Fluoride	0.13	mg/l	0.05	284925.7	210549.4	1.5	NO	NO	0.09	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284925.7	210549.4	0.05	NO	NO	1	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Magnesium	38	mg/l	0.2	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Potassium	8.9	mg/l	0.5	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Sodium	60	mg/l	1.5	284925.7	210549.4	200	NO	NO	0.3	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Calcium	110	mg/l	2	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Ammonia (Free)	< 0.05	mg/l	0.05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Total Phenols	< 0.03	mg/l	0.03	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Total Hardness as CaCO3	440	mg/l	15	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Nitrate	1.5	mg/l	0.5	284925.7	210549.4	50	NO	NO	0.03	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Dissolved Organic Carbon	71	mg/l	2	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Ethylbenzene	< 0.001	mg/l	0.001	284925.7	210549.4	0.3	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Toluene	< 0.001	mg/l	0.001	284925.7	210549.4	0.7	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Anthracene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Pyrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH30	239.1	3.03	2	14/03/2022	Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Fluoranthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Chrysene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	PCB 118	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	PCB 153	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	PCB 138	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	PCB 180	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	PCB 52	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	PCB 90+101	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4	1.00E-05	NO	NO	1	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	PCB 28	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Benzene	< 0.001	mg/l	0.001	284925.7	210549.4	0.001	NO	NO	1	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284925.7	210549.4	0.01	NO	NO	0.05	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284925.7	210549.4	0.001	NO	NO	0.05	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Nickel (Dissolved)	0.0047	mg/l	0.0005	284925.7	210549.4	0.02	NO	NO	0.24	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Arsenic (Dissolved)	0.00055	mg/l	0.0002	284925.7	210549.4	0.01	NO	NO	0.06	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284925.7	210549.4	0.005	NO	NO	0.02	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284925.7	210549.4	0.05	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Copper (Dissolved)	0.0011	mg/l	0.0005	284925.7	210549.4	2	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Zinc (Dissolved)	0.0053	mg/l	0.0025	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284925.7	210549.4	0.01	NO	NO	0.05	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Acenaphthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Phenanthrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Fluorene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Naphthalene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	o-Xylene	< 0.001	mg/l	0.001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.7	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.3	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.09	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.09	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.09	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.09	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	m & p-Xylene	< 0.001	mg/l	0.001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284925.7	210549.4	15	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284925.7	210549.4	15	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.3	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.3	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.3	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH30	239.1	3.03	2	14/03/2022	Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH31	238.61	4.5	1		Alkalinity (Bicarbonate)	370	mg CaCO3	10	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Sulphate	310	mg/l	1	284880.8	210454.8	250	NO	YES	1.24	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Chloride	49	mg/l	1	284880.8	210454.8	250	NO	NO	0.2	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Fluoride	0.12	mg/l	0.05	284880.8	210454.8	1.5	NO	NO	0.08	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Cyanide (Total)	< 0.05	mg/l	0.05	284880.8	210454.8	0.05	NO	NO	1	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Magnesium	38	mg/l	0.2	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Potassium	11	mg/l	0.5	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Sodium	75	mg/l	1.5	284880.8	210454.8	200	NO	NO	0.38	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Calcium	120	mg/l	2	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Ammonia (Free)	0.073	mg/l	0.05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Total Phenols	< 0.03	mg/l	0.03	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Total Hardness as CaCO3	450	mg/l	15	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Nitrate	1.4	mg/l	0.5	284880.8	210454.8	50	NO	NO	0.03	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Dissolved Organic Carbon	82	mg/l	2	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Ethylbenzene	< 0.001	mg/l	0.001	284880.8	210454.8	0.3	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Toluene	< 0.001	mg/l	0.001	284880.8	210454.8	0.7	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Anthracene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Pyrene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Fluoranthene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Acenaphthylene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Chrysene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		PCB 118	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		PCB 153	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		PCB 138	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		PCB 180	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		PCB 52	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		PCB 90+101	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8	1.00E-05	NO	NO	1	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		PCB 28	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Benzene	< 0.001	mg/l	0.001	284880.8	210454.8	0.001	NO	NO	1	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Lead (Dissolved)	< 0.0005	mg/l	0.0005	284880.8	210454.8	0.01	NO	NO	0.05	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284880.8	210454.8	0.001	NO	NO	0.05	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Nickel (Dissolved)	0.0044	mg/l	0.0005	284880.8	210454.8	0.02	NO	NO	0.22	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Arsenic (Dissolved)	0.00039	mg/l	0.0002	284880.8	210454.8	0.01	NO	NO	0.04	POINT (284880.77 210454.81)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH31	238.61	4.5	1		Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284880.8	210454.8	0.005	NO	NO	0.02	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284880.8	210454.8	0.05	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Copper (Dissolved)	0.0024	mg/l	0.0005	284880.8	210454.8	2	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Zinc (Dissolved)	0.011	mg/l	0.0025	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284880.8	210454.8	0.01	NO	NO	0.05	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Acenaphthene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Phenanthrene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Fluorene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Naphthalene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		o-Xylene	< 0.001	mg/l	0.001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.7	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.3	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.09	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.09	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.09	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.09	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		m & p-Xylene	< 0.001	mg/l	0.001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284880.8	210454.8	15	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284880.8	210454.8	15	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.3	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.3	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.3	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Alkalinity (Bicarbonate)	410	mg CaCO3,	10	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Sulphate	110	mg/l	1	284880.8	210454.8	250	NO	NO	0.44	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Chloride	33	mg/l	1	284880.8	210454.8	250	NO	NO	0.13	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Fluoride	0.2	mg/l	0.05	284880.8	210454.8	1.5	NO	NO	0.13	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284880.8	210454.8	0.05	NO	NO	1	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Magnesium	30	mg/l	0.2	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Potassium	18	mg/l	0.5	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Sodium	62	mg/l	1.5	284880.8	210454.8	200	NO	NO	0.31	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Calcium	63	mg/l	2	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Ammonia (Free)	< 0.05	mg/l	0.05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Total Phenols	< 0.03	mg/l	0.03	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Total Hardness as CaCO3	280	mg/l	15	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Nitrate	0.58	mg/l	0.5	284880.8	210454.8	50	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Dissolved Organic Carbon	78	mg/l	2	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Ethylbenzene	< 0.001	mg/l	0.001	284880.8	210454.8	0.3	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Toluene	< 0.001	mg/l	0.001	284880.8	210454.8	0.7	NO	NO	0	POINT (284880.77 210454.81)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH31	238.61	4.62	2	14/03/2022	Anthracene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Pyrene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Fluoranthene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Chrysene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	PCB 118	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	PCB 153	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	PCB 138	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	PCB 180	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	PCB 52	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	PCB 90+101	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8	1.00E-05	NO	NO	1	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	PCB 28	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Benzene	< 0.001	mg/l	0.001	284880.8	210454.8	0.001	NO	NO	1	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284880.8	210454.8	0.01	NO	NO	0.05	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284880.8	210454.8	0.001	NO	NO	0.05	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Nickel (Dissolved)	0.0033	mg/l	0.0005	284880.8	210454.8	0.02	NO	NO	0.16	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Arsenic (Dissolved)	0.00025	mg/l	0.0002	284880.8	210454.8	0.01	NO	NO	0.02	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284880.8	210454.8	0.005	NO	NO	0.02	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284880.8	210454.8	0.05	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Copper (Dissolved)	0.00069	mg/l	0.0005	284880.8	210454.8	2	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Zinc (Dissolved)	0.034	mg/l	0.0025	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Selenium (Dissolved)	0.0012	mg/l	0.0005	284880.8	210454.8	0.01	NO	NO	0.12	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Acenaphthene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Phenanthrene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Fluorene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Naphthalene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	o-Xylene	< 0.001	mg/l	0.001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.7	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.3	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.09	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.09	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.09	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.09	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	m & p-Xylene	< 0.001	mg/l	0.001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284880.8	210454.8	15	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284880.8	210454.8	15	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.3	NO	NO	0	POINT (284880.77 210454.81)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH31	238.61	4.62	2	14/03/2022	Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.3	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.3	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH32	244.73	4.76	1		Alkalinity (Bicarbonate)	340	mg CaCO3/	10	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Sulphate	67	mg/l	1	284968	210230	250	NO	NO	0.27	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Chloride	51	mg/l	1	284968	210230	250	NO	NO	0.2	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Fluoride	0.18	mg/l	0.05	284968	210230	1.5	NO	NO	0.12	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Cyanide (Total)	< 0.05	mg/l	0.05	284968	210230	0.05	NO	NO	1	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Magnesium	13	mg/l	0.2	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Potassium	17	mg/l	0.5	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Sodium	100	mg/l	1.5	284968	210230	200	NO	NO	0.5	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Calcium	43	mg/l	2	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Ammonia (Free)	< 0.05	mg/l	0.05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Total Phenols	< 0.03	mg/l	0.03	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Total Hardness as CaCO3	160	mg/l	15	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Nitrate	0.88	mg/l	0.5	284968	210230	50	NO	NO	0.02	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Dissolved Organic Carbon	73	mg/l	2	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Ethylbenzene	< 0.001	mg/l	0.001	284968	210230	0.3	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Toluene	< 0.001	mg/l	0.001	284968	210230	0.7	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Anthracene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Pyrene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Fluoranthene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Acenaphthylene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Chrysene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		PCB 118	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		PCB 153	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		PCB 138	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		PCB 180	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		PCB 52	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		PCB 90+101	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284968	210230	1.00E-05	NO	NO	1	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		PCB 28	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Benzene	< 0.001	mg/l	0.001	284968	210230	0.001	NO	NO	1	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Lead (Dissolved)	< 0.0005	mg/l	0.0005	284968	210230	0.01	NO	NO	0.05	POINT (284967.95 210230.01)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH32	244.73	4.76	1		Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284968	210230	0.001	NO	NO	0.05	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Nickel (Dissolved)	0.0028	mg/l	0.0005	284968	210230	0.02	NO	NO	0.14	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Arsenic (Dissolved)	0.0014	mg/l	0.0002	284968	210230	0.01	NO	NO	0.14	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284968	210230	0.005	NO	NO	0.02	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Chromium (Dissolved)	0.0088	mg/l	0.0005	284968	210230	0.05	NO	NO	0.18	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Copper (Dissolved)	0.0033	mg/l	0.0005	284968	210230	2	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Zinc (Dissolved)	0.033	mg/l	0.0025	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Selenium (Dissolved)	0.0014	mg/l	0.0005	284968	210230	0.01	NO	NO	0.14	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Acenaphthene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Phenanthrene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Fluorene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Naphthalene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		o-Xylene	< 0.001	mg/l	0.001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284968	210230	0.7	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284968	210230	0.3	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284968	210230	0.09	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284968	210230	0.09	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284968	210230	0.09	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284968	210230	0.09	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		m & p-Xylene	< 0.001	mg/l	0.001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284968	210230	15	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284968	210230	15	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284968	210230	0.3	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284968	210230	0.3	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284968	210230	0.3	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Alkalinity (Bicarbonate)	230	mg CaCO3/	10	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Sulphate	3	mg/l	1	284968	210230	250	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Chloride	250	mg/l	1	284968	210230	250	NO	NO	1	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Fluoride	0.15	mg/l	0.05	284968	210230	1.5	NO	NO	0.1	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284968	210230	0.05	NO	NO	1	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Magnesium	32	mg/l	0.2	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Potassium	77	mg/l	0.5	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Sodium	45	mg/l	1.5	284968	210230	200	NO	NO	0.22	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Calcium	62	mg/l	2	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Ammonia (Free)	0.059	mg/l	0.05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Total Phenols	< 0.03	mg/l	0.03	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Total Hardness as CaCO3	290	mg/l	15	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Nitrate	< 0.5	mg/l	0.5	284968	210230	50	NO	NO	0.01	POINT (284967.95 210230.01)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH32	244.73	4.28	2	14/03/2022	Dissolved Organic Carbon	57	mg/l	2	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Ethylbenzene	< 0.001	mg/l	0.001	284968	210230	0.3	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Toluene	< 0.001	mg/l	0.001	284968	210230	0.7	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Anthracene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Pyrene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Fluoranthene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Chrysene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	PCB 118	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	PCB 153	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	PCB 138	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	PCB 180	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	PCB 52	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	PCB 90+101	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284968	210230	1.00E-05	NO	NO	1	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	PCB 28	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Benzene	< 0.001	mg/l	0.001	284968	210230	0.001	NO	NO	1	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284968	210230	0.01	NO	NO	0.05	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284968	210230	0.001	NO	NO	0.05	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Nickel (Dissolved)	0.0012	mg/l	0.0005	284968	210230	0.02	NO	NO	0.06	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284968	210230	0.01	NO	NO	0.02	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284968	210230	0.005	NO	NO	0.02	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284968	210230	0.05	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284968	210230	2	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Zinc (Dissolved)	0.0083	mg/l	0.0025	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284968	210230	0.01	NO	NO	0.05	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Acenaphthene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Phenanthrene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Fluorene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Naphthalene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	o-Xylene	< 0.001	mg/l	0.001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284968	210230	0.7	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284968	210230	0.3	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284968	210230	0.09	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284968	210230	0.09	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284968	210230	0.09	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284968	210230	0.09	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	m & p-Xylene	< 0.001	mg/l	0.001	284968	210230		NO	NO		POINT (284967.95 210230.01)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH32	244.73	4.28	2	14/03/2022	Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284968	210230	15	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284968	210230	15	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284968	210230	0.3	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284968	210230	0.3	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284968	210230	0.3	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH33	230.51	0.41	1		Alkalinity (Bicarbonate)	440	mg CaCO3/	10	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Sulphate	60	mg/l	1	284397	210700.9	250	NO	NO	0.24	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Chloride	17	mg/l	1	284397	210700.9	250	NO	NO	0.07	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Fluoride	0.15	mg/l	0.05	284397	210700.9	1.5	NO	NO	0.1	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Cyanide (Total)	< 0.05	mg/l	0.05	284397	210700.9	0.05	NO	NO	1	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Magnesium	18	mg/l	0.2	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Potassium	40	mg/l	0.5	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Sodium	97	mg/l	1.5	284397	210700.9	200	NO	NO	0.48	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Calcium	47	mg/l	2	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Ammonia (Free)	0.14	mg/l	0.05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Total Phenols	< 0.03	mg/l	0.03	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Total Hardness as CaCO3	190	mg/l	15	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Nitrate	< 0.5	mg/l	0.5	284397	210700.9	50	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Dissolved Organic Carbon	100	mg/l	2	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Ethylbenzene	< 0.001	mg/l	0.001	284397	210700.9	0.3	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Toluene	< 0.001	mg/l	0.001	284397	210700.9	0.7	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Anthracene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Pyrene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Fluoranthene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Acenaphthylene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Chrysene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		PCB 118	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		PCB 153	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		PCB 138	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		PCB 180	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		PCB 52	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		PCB 90+101	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284397	210700.9	1.00E-05	NO	NO	1	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH33	230.51	0.41	1		PCB 28	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Benzene	< 0.001	mg/l	0.001	284397	210700.9	0.001	NO	NO	1	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Lead (Dissolved)	< 0.0005	mg/l	0.0005	284397	210700.9	0.01	NO	NO	0.05	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284397	210700.9	0.001	NO	NO	0.05	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Nickel (Dissolved)	0.002	mg/l	0.0005	284397	210700.9	0.02	NO	NO	0.1	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Arsenic (Dissolved)	0.00083	mg/l	0.0002	284397	210700.9	0.01	NO	NO	0.08	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284397	210700.9	0.005	NO	NO	0.02	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Chromium (Dissolved)	0.00066	mg/l	0.0005	284397	210700.9	0.05	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Copper (Dissolved)	0.0012	mg/l	0.0005	284397	210700.9	2	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Zinc (Dissolved)	0.021	mg/l	0.0025	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284397	210700.9	0.01	NO	NO	0.05	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Acenaphthene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Phenanthrene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Fluorene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Naphthalene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		o-Xylene	< 0.001	mg/l	0.001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284397	210700.9	0.7	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284397	210700.9	0.3	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284397	210700.9	0.09	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284397	210700.9	0.09	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284397	210700.9	0.09	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284397	210700.9	0.09	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		m & p-Xylene	< 0.001	mg/l	0.001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284397	210700.9	15	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284397	210700.9	15	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284397	210700.9	0.3	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284397	210700.9	0.3	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284397	210700.9	0.3	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Alkalinity (Bicarbonate)	380	mg CaCO3/	10	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Sulphate	66	mg/l	1	284397	210700.9	250	NO	NO	0.26	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Chloride	16	mg/l	1	284397	210700.9	250	NO	NO	0.06	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Fluoride	0.15	mg/l	0.05	284397	210700.9	1.5	NO	NO	0.1	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284397	210700.9	0.05	NO	NO	1	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Magnesium	18	mg/l	0.2	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Potassium	40	mg/l	0.5	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Sodium	81	mg/l	1.5	284397	210700.9	200	NO	NO	0.4	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Calcium	46	mg/l	2	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Ammonia (Free)	< 0.05	mg/l	0.05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH33	230.51	0.12	2	14/03/2022	Total Phenols	< 0.03	mg/l	0.03	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Total Hardness as CaCO3	190	mg/l	15	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Nitrate	< 0.5	mg/l	0.5	284397	210700.9	50	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Dissolved Organic Carbon	92	mg/l	2	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Ethylbenzene	< 0.001	mg/l	0.001	284397	210700.9	0.3	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Toluene	< 0.001	mg/l	0.001	284397	210700.9	0.7	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Anthracene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Pyrene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Fluoranthene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Chrysene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	PCB 118	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	PCB 153	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	PCB 138	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	PCB 180	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	PCB 52	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	PCB 90+101	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284397	210700.9	1.00E-05	NO	NO	1	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	PCB 28	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Benzene	< 0.001	mg/l	0.001	284397	210700.9	0.001	NO	NO	1	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284397	210700.9	0.01	NO	NO	0.05	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284397	210700.9	0.001	NO	NO	0.05	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Nickel (Dissolved)	0.0016	mg/l	0.0005	284397	210700.9	0.02	NO	NO	0.08	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Arsenic (Dissolved)	0.00043	mg/l	0.0002	284397	210700.9	0.01	NO	NO	0.04	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284397	210700.9	0.005	NO	NO	0.02	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284397	210700.9	0.05	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284397	210700.9	2	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Zinc (Dissolved)	0.012	mg/l	0.0025	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284397	210700.9	0.01	NO	NO	0.05	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Acenaphthene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Phenanthrene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Fluorene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Naphthalene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	o-Xylene	< 0.001	mg/l	0.001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284397	210700.9	0.7	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284397	210700.9	0.3	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284397	210700.9	0.09	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284397	210700.9	0.09	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284397	210700.9	0.09	NO	NO	0	POINT (284397.04 210700.88)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH33	230.51	0.12	2	14/03/2022	Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284397	210700.9	0.09	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	m & p-Xylene	< 0.001	mg/l	0.001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284397	210700.9	15	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284397	210700.9	15	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284397	210700.9	0.3	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284397	210700.9	0.3	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284397	210700.9	0.3	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH34	232.64	5.09	1		Alkalinity (Bicarbonate)	320	mg CaCO3/	10	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Sulphate	49	mg/l	1	284419.6	210543.6	250	NO	NO	0.2	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Chloride	28	mg/l	1	284419.6	210543.6	250	NO	NO	0.11	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Fluoride	0.15	mg/l	0.05	284419.6	210543.6	1.5	NO	NO	0.1	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Cyanide (Total)	< 0.05	mg/l	0.05	284419.6	210543.6	0.05	NO	NO	1	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Magnesium	28	mg/l	0.2	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Potassium	8.3	mg/l	0.5	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Sodium	71	mg/l	1.5	284419.6	210543.6	200	NO	NO	0.36	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Calcium	11	mg/l	2	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Ammonia (Free)	0.5	mg/l	0.05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Total Phenols	< 0.03	mg/l	0.03	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Total Hardness as CaCO3	140	mg/l	15	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Nitrate	< 0.5	mg/l	0.5	284419.6	210543.6	50	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Dissolved Organic Carbon	67	mg/l	2	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Ethylbenzene	< 0.001	mg/l	0.001	284419.6	210543.6	0.3	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Toluene	< 0.001	mg/l	0.001	284419.6	210543.6	0.7	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Anthracene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Pyrene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Fluoranthene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Acenaphthylene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Chrysene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		PCB 118	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		PCB 153	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		PCB 138	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		PCB 180	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		PCB 52	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		PCB 90+101	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH34	232.64	5.09	1		Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6	1.00E-05	NO	NO	1	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		PCB 28	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Benzene	< 0.001	mg/l	0.001	284419.6	210543.6	0.001	NO	NO	1	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Lead (Dissolved)	< 0.0005	mg/l	0.0005	284419.6	210543.6	0.01	NO	NO	0.05	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284419.6	210543.6	0.001	NO	NO	0.05	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Nickel (Dissolved)	0.0033	mg/l	0.0005	284419.6	210543.6	0.02	NO	NO	0.16	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284419.6	210543.6	0.01	NO	NO	0.02	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284419.6	210543.6	0.005	NO	NO	0.02	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284419.6	210543.6	0.05	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Copper (Dissolved)	0.00058	mg/l	0.0005	284419.6	210543.6	2	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Zinc (Dissolved)	0.012	mg/l	0.0025	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284419.6	210543.6	0.01	NO	NO	0.05	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Acenaphthene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Phenanthrene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Fluorene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Naphthalene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		o-Xylene	< 0.001	mg/l	0.001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.7	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.3	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.09	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.09	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.09	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.09	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		m & p-Xylene	< 0.001	mg/l	0.001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284419.6	210543.6	15	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284419.6	210543.6	15	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.3	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.3	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.3	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Alkalinity (Bicarbonate)	270	mg CaCO3/	10	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Sulphate	40	mg/l	1	284419.6	210543.6	250	NO	NO	0.16	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Chloride	28	mg/l	1	284419.6	210543.6	250	NO	NO	0.11	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Fluoride	0.16	mg/l	0.05	284419.6	210543.6	1.5	NO	NO	0.11	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284419.6	210543.6	0.05	NO	NO	1	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Magnesium	26	mg/l	0.2	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Potassium	7.8	mg/l	0.5	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH34	232.64	4.76	2	14/03/2022	Sodium	66	mg/l	1.5	284419.6	210543.6	200	NO	NO	0.33	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Calcium	10	mg/l	2	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Ammonia (Free)	0.089	mg/l	0.05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Total Phenols	< 0.03	mg/l	0.03	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Total Hardness as CaCO3	130	mg/l	15	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Nitrate	< 0.5	mg/l	0.5	284419.6	210543.6	50	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Dissolved Organic Carbon	64	mg/l	2	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Ethylbenzene	< 0.001	mg/l	0.001	284419.6	210543.6	0.3	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Toluene	< 0.001	mg/l	0.001	284419.6	210543.6	0.7	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Anthracene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Pyrene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Fluoranthene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Chrysene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	PCB 118	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	PCB 153	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	PCB 138	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	PCB 180	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	PCB 52	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	PCB 90+101	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6	1.00E-05	NO	NO	1	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	PCB 28	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Benzene	< 0.001	mg/l	0.001	284419.6	210543.6	0.001	NO	NO	1	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284419.6	210543.6	0.01	NO	NO	0.05	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284419.6	210543.6	0.001	NO	NO	0.05	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Nickel (Dissolved)	0.0018	mg/l	0.0005	284419.6	210543.6	0.02	NO	NO	0.09	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284419.6	210543.6	0.01	NO	NO	0.02	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284419.6	210543.6	0.005	NO	NO	0.02	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284419.6	210543.6	0.05	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Copper (Dissolved)	0.00055	mg/l	0.0005	284419.6	210543.6	2	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Zinc (Dissolved)	0.017	mg/l	0.0025	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284419.6	210543.6	0.01	NO	NO	0.05	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Acenaphthene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Phenanthrene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Fluorene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Naphthalene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	o-Xylene	< 0.001	mg/l	0.001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.7	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.3	NO	NO	0	POINT (284419.61 210543.6)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH34	232.64	4.76	2	14/03/2022	Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.09	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.09	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.09	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.09	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	m & p-Xylene	< 0.001	mg/l	0.001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284419.6	210543.6	15	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284419.6	210543.6	15	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.3	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.3	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.3	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
S1-BH101	241.16	13.51	45	02/02/2023	Sulphate	130	mg/l	1	284925.4	210692	250	NO	NO	0.52	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284925.4	210692	0.05	NO	NO	1	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Calcium (Dissolved)	60	mg/l	2	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Total Phenols	< 0.03	mg/l	0.03	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Total Hardness as CaCO3	320	mg/l	15	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284925.4	210692	1.00E-05	YES	NO	10	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692	0.01	NO	NO	0.05	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284925.4	210692	0.001	NO	NO	0.05	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Nickel (Dissolved)	0.00091	mg/l	0.0005	284925.4	210692	0.02	NO	NO	0.05	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284925.4	210692	0.01	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Boron (Dissolved)	0.051	mg/l	0.01	284925.4	210692	1	NO	NO	0.05	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284925.4	210692	0.005	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Chromium (Dissolved)	0.0026	mg/l	0.0005	284925.4	210692	0.05	NO	NO	0.05	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692	2	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692		NO	NO		POINT (284925.38 210692.01)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH101	241.16	13.51	45	02/02/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Selenium (Dissolved)	0.0027	mg/l	0.0005	284925.4	210692	0.01	NO	NO	0.27	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Manganese (Dissolved)	0.35	mg/l	0.0005	284925.4	210692	0.05	NO	YES	7	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Sulphate	110	mg/l	1	284925.4	210692	250	NO	NO	0.44	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284925.4	210692	0.05	NO	NO	1	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Calcium (Dissolved)	59	mg/l	2	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Total Phenols	< 0.03	mg/l	0.03	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Total Hardness as CaCO3	320	mg/l	15	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284925.4	210692	1.00E-05	YES	NO	10	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692	0.01	NO	NO	0.05	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284925.4	210692	0.001	NO	NO	0.05	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Nickel (Dissolved)	0.00057	mg/l	0.0005	284925.4	210692	0.02	NO	NO	0.03	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284925.4	210692	0.01	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Boron (Dissolved)	0.045	mg/l	0.01	284925.4	210692	1	NO	NO	0.04	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284925.4	210692	0.005	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Chromium (Dissolved)	0.0022	mg/l	0.0005	284925.4	210692	0.05	NO	NO	0.04	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692	2	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Zinc (Dissolved)	0.0026	mg/l	0.0025	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692	0.01	NO	NO	0.05	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Manganese (Dissolved)	0.25	mg/l	0.0005	284925.4	210692	0.05	NO	YES	5	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH102	230.73	8.72	28	24/01/2023	Sulphate	140	mg/l	1	284544.5	210695.4	250	NO	NO	0.56	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Cyanide (Total)	0.06	mg/l	0.05	284544.5	210695.4	0.05	NO	YES	1.2	POINT (284544.49 210695.4)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH102	230.73	8.72	28	24/01/2023	Calcium (Dissolved)	190	mg/l	2	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Total Phenols	< 0.03	mg/l	0.03	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Total Hardness as CaCO3	820	mg/l	15	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Dissolved Organic Carbon	2.1	mg/l	2	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Anthracene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Pyrene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Chrysene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284544.5	210695.4	1.00E-05	YES	NO	10	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.01	NO	NO	0.05	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284544.5	210695.4	0.001	NO	NO	0.05	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Nickel (Dissolved)	0.0099	mg/l	0.0005	284544.5	210695.4	0.02	NO	NO	0.5	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Arsenic (Dissolved)	0.0012	mg/l	0.0002	284544.5	210695.4	0.01	NO	NO	0.12	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Boron (Dissolved)	0.073	mg/l	0.01	284544.5	210695.4	1	NO	NO	0.07	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284544.5	210695.4	0.005	NO	NO	0.02	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.05	NO	NO	0.01	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Copper (Dissolved)	0.00074	mg/l	0.0005	284544.5	210695.4	2	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.01	NO	NO	0.05	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Fluorene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Naphthalene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Manganese (Dissolved)	0.069	mg/l	0.0005	284544.5	210695.4	0.05	NO	YES	1.38	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Sulphate	130	mg/l	1	284544.5	210695.4	250	NO	NO	0.52	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284544.5	210695.4	0.05	NO	NO	1	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Calcium (Dissolved)	57	mg/l	2	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Total Phenols	< 0.03	mg/l	0.03	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Total Hardness as CaCO3	210	mg/l	15	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH102	230.73	8.85	29	01/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284544.5	210695.4	1.00E-05	YES	NO	10	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.01	NO	NO	0.05	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284544.5	210695.4	0.001	NO	NO	0.05	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Nickel (Dissolved)	0.0096	mg/l	0.0005	284544.5	210695.4	0.02	NO	NO	0.48	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Arsenic (Dissolved)	0.00092	mg/l	0.0002	284544.5	210695.4	0.01	NO	NO	0.09	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Boron (Dissolved)	0.046	mg/l	0.01	284544.5	210695.4	1	NO	NO	0.05	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284544.5	210695.4	0.005	NO	NO	0.02	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Chromium (Dissolved)	0.0024	mg/l	0.0005	284544.5	210695.4	0.05	NO	NO	0.05	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	2	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Zinc (Dissolved)	0.0046	mg/l	0.0025	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Selenium (Dissolved)	0.0026	mg/l	0.0005	284544.5	210695.4	0.01	NO	NO	0.26	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Manganese (Dissolved)	0.37	mg/l	0.0005	284544.5	210695.4	0.05	NO	YES	7.4	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Sulphate	76	mg/l	1	284544.5	210695.4	250	NO	NO	0.3	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284544.5	210695.4	0.05	NO	NO	1	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Calcium (Dissolved)	35	mg/l	2	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Total Phenols	< 0.03	mg/l	0.03	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Total Hardness as CaCO3	130	mg/l	15	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284544.5	210695.4	1.00E-05	YES	NO	10	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.01	NO	NO	0.05	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284544.5	210695.4	0.001	NO	NO	0.05	POINT (284544.49 210695.4)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH102	230.73	8.75	30	13/02/2023	Nickel (Dissolved)	0.0039	mg/l	0.0005	284544.5	210695.4	0.02	NO	NO	0.19	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Arsenic (Dissolved)	0.0015	mg/l	0.0002	284544.5	210695.4	0.01	NO	NO	0.15	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Boron (Dissolved)	0.66	mg/l	0.01	284544.5	210695.4	1	NO	NO	0.66	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284544.5	210695.4	0.005	NO	NO	0.02	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Chromium (Dissolved)	0.0038	mg/l	0.0005	284544.5	210695.4	0.05	NO	NO	0.08	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	2	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.01	NO	NO	0.05	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Manganese (Dissolved)	0.22	mg/l	0.0005	284544.5	210695.4	0.05	NO	YES	4.4	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH103	234.33	5.54	36	25/01/2023	Sulphate	250	mg/l	1	284603.2	210646.5	250	NO	NO	1	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284603.2	210646.5	0.05	NO	NO	1	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Calcium (Dissolved)	340	mg/l	2	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Total Phenols	< 0.03	mg/l	0.03	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Total Hardness as CaCO3	1500	mg/l	15	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Anthracene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Pyrene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Chrysene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284603.2	210646.5	1.00E-05	YES	NO	10	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.01	NO	NO	0.05	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284603.2	210646.5	0.001	NO	NO	0.05	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Nickel (Dissolved)	0.0024	mg/l	0.0005	284603.2	210646.5	0.02	NO	NO	0.12	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Arsenic (Dissolved)	0.00039	mg/l	0.0002	284603.2	210646.5	0.01	NO	NO	0.04	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Boron (Dissolved)	0.041	mg/l	0.01	284603.2	210646.5	1	NO	NO	0.04	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284603.2	210646.5	0.005	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.05	NO	NO	0.01	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	2	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Zinc (Dissolved)	0.0048	mg/l	0.0025	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.01	NO	NO	0.05	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH103	234.33	5.54	36	25/01/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Fluorene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Naphthalene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Manganese (Dissolved)	0.92	mg/l	0.0005	284603.2	210646.5	0.05	NO	YES	18.4	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Sulphate	240	mg/l	1	284603.2	210646.5	250	NO	NO	0.96	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284603.2	210646.5	0.05	NO	NO	1	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Calcium (Dissolved)	78	mg/l	2	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Total Phenols	< 0.03	mg/l	0.03	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Total Hardness as CaCO3	350	mg/l	15	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284603.2	210646.5	1.00E-05	YES	NO	10	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.01	NO	NO	0.05	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284603.2	210646.5	0.001	NO	NO	0.05	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Nickel (Dissolved)	0.0023	mg/l	0.0005	284603.2	210646.5	0.02	NO	NO	0.12	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284603.2	210646.5	0.01	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Boron (Dissolved)	0.047	mg/l	0.01	284603.2	210646.5	1	NO	NO	0.05	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284603.2	210646.5	0.005	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Chromium (Dissolved)	0.0015	mg/l	0.0005	284603.2	210646.5	0.05	NO	NO	0.03	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	2	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Selenium (Dissolved)	0.0029	mg/l	0.0005	284603.2	210646.5	0.01	NO	NO	0.29	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Manganese (Dissolved)	0.83	mg/l	0.0005	284603.2	210646.5	0.05	NO	YES	16.6	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Sulphate	200	mg/l	1	284603.2	210646.5	250	NO	NO	0.8	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284603.2	210646.5	0.05	NO	NO	1	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Calcium (Dissolved)	78	mg/l	2	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Total Phenols	< 0.03	mg/l	0.03	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH103	234.33	5.52	38	14/02/2023	Total Hardness as CaCO3	350	mg/l	15	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284603.2	210646.5	1.00E-05	YES	NO	10	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.01	NO	NO	0.05	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284603.2	210646.5	0.001	NO	NO	0.05	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Nickel (Dissolved)	0.0025	mg/l	0.0005	284603.2	210646.5	0.02	NO	NO	0.12	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284603.2	210646.5	0.01	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Boron (Dissolved)	0.046	mg/l	0.01	284603.2	210646.5	1	NO	NO	0.05	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284603.2	210646.5	0.005	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Chromium (Dissolved)	0.0012	mg/l	0.0005	284603.2	210646.5	0.05	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	2	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.01	NO	NO	0.05	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Manganese (Dissolved)	0.39	mg/l	0.0005	284603.2	210646.5	0.05	NO	YES	7.8	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH105	236.49	15.36	37	01/02/2023	Sulphate	150	mg/l	1	284719	210649.9	250	NO	NO	0.6	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284719	210649.9	0.05	NO	NO	1	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Calcium (Dissolved)	88	mg/l	2	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Total Phenols	< 0.03	mg/l	0.03	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Total Hardness as CaCO3	370	mg/l	15	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH105	236.49	15.36	37	01/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284719	210649.9	1.00E-05	YES	NO	10	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.01	NO	NO	0.05	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284719	210649.9	0.001	NO	NO	0.05	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Nickel (Dissolved)	0.0061	mg/l	0.0005	284719	210649.9	0.02	NO	NO	0.3	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Arsenic (Dissolved)	0.00033	mg/l	0.0002	284719	210649.9	0.01	NO	NO	0.03	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Boron (Dissolved)	0.038	mg/l	0.01	284719	210649.9	1	NO	NO	0.04	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284719	210649.9	0.005	NO	NO	0.02	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Chromium (Dissolved)	0.0017	mg/l	0.0005	284719	210649.9	0.05	NO	NO	0.03	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	2	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Selenium (Dissolved)	0.0024	mg/l	0.0005	284719	210649.9	0.01	NO	NO	0.24	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Manganese (Dissolved)	2	mg/l	0.0005	284719	210649.9	0.05	NO	YES	40	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Sulphate	100	mg/l	1	284719	210649.9	250	NO	NO	0.4	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284719	210649.9	0.05	NO	NO	1	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Calcium (Dissolved)	82	mg/l	2	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Total Phenols	< 0.03	mg/l	0.03	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Total Hardness as CaCO3	330	mg/l	15	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284719	210649.9	1.00E-05	YES	NO	10	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.01	NO	NO	0.05	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284719	210649.9	0.001	NO	NO	0.05	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Nickel (Dissolved)	0.002	mg/l	0.0005	284719	210649.9	0.02	NO	NO	0.1	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284719	210649.9	0.01	NO	NO	0.02	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Boron (Dissolved)	0.032	mg/l	0.01	284719	210649.9	1	NO	NO	0.03	POINT (284718.99 210649.88)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH105	236.49	15.36	38	14/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284719	210649.9	0.005	NO	NO	0.02	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Chromium (Dissolved)	0.0014	mg/l	0.0005	284719	210649.9	0.05	NO	NO	0.03	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	2	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.01	NO	NO	0.05	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Manganese (Dissolved)	0.9	mg/l	0.0005	284719	210649.9	0.05	NO	YES	18	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Sulphate	130	mg/l	1	284719	210649.9	250	NO	NO	0.52	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284719	210649.9	0.05	NO	NO	1	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Calcium (Dissolved)	77	mg/l	2	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Total Phenols	< 0.03	mg/l	0.03	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Total Hardness as CaCO3	330	mg/l	15	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Anthracene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Pyrene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Chrysene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284719	210649.9	1.00E-05	YES	NO	10	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.01	NO	NO	0.05	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284719	210649.9	0.001	NO	NO	0.05	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Nickel (Dissolved)	0.0038	mg/l	0.0005	284719	210649.9	0.02	NO	NO	0.19	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Arsenic (Dissolved)	0.0027	mg/l	0.0002	284719	210649.9	0.01	NO	NO	0.27	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Boron (Dissolved)	0.036	mg/l	0.01	284719	210649.9	1	NO	NO	0.04	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284719	210649.9	0.005	NO	NO	0.02	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.05	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	2	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Zinc (Dissolved)	0.013	mg/l	0.0025	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Selenium (Dissolved)	0.0016	mg/l	0.0005	284719	210649.9	0.01	NO	NO	0.16	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Fluorene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Naphthalene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH105	236.49	6.28	GW1	16/01/2023	Manganese (Dissolved)	1.6	mg/l	0.0005	284719	210649.9	0.05	NO	YES	32	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH112	237.94	15	26	02/02/2023	Sulphate	170	mg/l	1	284882.1	210600	250	NO	NO	0.68	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284882.1	210600	0.05	NO	NO	1	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Calcium (Dissolved)	69	mg/l	2	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Total Phenols	< 0.03	mg/l	0.03	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Total Hardness as CaCO3	280	mg/l	15	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284882.1	210600	1.00E-05	YES	NO	10	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600	0.01	NO	NO	0.05	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284882.1	210600	0.001	NO	NO	0.05	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Nickel (Dissolved)	0.0026	mg/l	0.0005	284882.1	210600	0.02	NO	NO	0.13	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284882.1	210600	0.01	NO	NO	0.02	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Boron (Dissolved)	0.054	mg/l	0.01	284882.1	210600	1	NO	NO	0.05	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284882.1	210600	0.005	NO	NO	0.02	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Chromium (Dissolved)	0.0012	mg/l	0.0005	284882.1	210600	0.05	NO	NO	0.02	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600	2	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Zinc (Dissolved)	0.012	mg/l	0.0025	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Selenium (Dissolved)	0.0031	mg/l	0.0005	284882.1	210600	0.01	NO	NO	0.31	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Manganese (Dissolved)	1.6	mg/l	0.0005	284882.1	210600	0.05	NO	YES	32	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Sulphate	180	mg/l	1	284882.1	210600	250	NO	NO	0.72	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284882.1	210600	0.05	NO	NO	1	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Calcium (Dissolved)	73	mg/l	2	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Total Phenols	< 0.03	mg/l	0.03	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Total Hardness as CaCO3	290	mg/l	15	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH112	237.94	15.17	27	14/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284882.1	210600	1.00E-05	YES	NO	10	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600	0.01	NO	NO	0.05	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284882.1	210600	0.001	NO	NO	0.05	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Nickel (Dissolved)	0.0015	mg/l	0.0005	284882.1	210600	0.02	NO	NO	0.08	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284882.1	210600	0.01	NO	NO	0.02	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Boron (Dissolved)	0.045	mg/l	0.01	284882.1	210600	1	NO	NO	0.04	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Cadmium (Dissolved)	0.00016	mg/l	0.00011	284882.1	210600	0.005	NO	NO	0.03	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600	0.05	NO	NO	0.01	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600	2	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Zinc (Dissolved)	0.0027	mg/l	0.0025	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600	0.01	NO	NO	0.05	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Manganese (Dissolved)	1.3	mg/l	0.0005	284882.1	210600	0.05	NO	YES	26	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH113	236.95	5.54	31	01/02/2023	Sulphate	290	mg/l	1	284799.6	210645.6	250	NO	YES	1.16	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284799.6	210645.6	0.05	NO	NO	1	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Calcium (Dissolved)	120	mg/l	2	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Total Phenols	< 0.03	mg/l	0.03	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Total Hardness as CaCO3	490	mg/l	15	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284799.6	210645.6	1.00E-05	YES	NO	10	POINT (284799.55 210645.61)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH113	236.95	5.54	31	01/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284799.6	210645.6	0.01	NO	NO	0.05	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284799.6	210645.6	0.001	NO	NO	0.05	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Nickel (Dissolved)	0.0094	mg/l	0.0005	284799.6	210645.6	0.02	NO	NO	0.47	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284799.6	210645.6	0.01	NO	NO	0.02	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Boron (Dissolved)	0.062	mg/l	0.01	284799.6	210645.6	1	NO	NO	0.06	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284799.6	210645.6	0.005	NO	NO	0.02	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Chromium (Dissolved)	0.002	mg/l	0.0005	284799.6	210645.6	0.05	NO	NO	0.04	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284799.6	210645.6	2	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Zinc (Dissolved)	0.0043	mg/l	0.0025	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Selenium (Dissolved)	0.0017	mg/l	0.0005	284799.6	210645.6	0.01	NO	NO	0.17	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Manganese (Dissolved)	1.5	mg/l	0.0005	284799.6	210645.6	0.05	NO	YES	30	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Sulphate	180	mg/l	1	284799.6	210645.6	250	NO	NO	0.72	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284799.6	210645.6	0.05	NO	NO	1	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Calcium (Dissolved)	75	mg/l	2	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Total Phenols	< 0.03	mg/l	0.03	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Total Hardness as CaCO3	320	mg/l	15	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Anthracene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Pyrene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Chrysene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284799.6	210645.6	1.00E-05	YES	NO	10	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284799.6	210645.6	0.01	NO	NO	0.05	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284799.6	210645.6	0.001	NO	NO	0.05	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Nickel (Dissolved)	0.0052	mg/l	0.0005	284799.6	210645.6	0.02	NO	NO	0.26	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Arsenic (Dissolved)	0.0011	mg/l	0.0002	284799.6	210645.6	0.01	NO	NO	0.11	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Boron (Dissolved)	0.062	mg/l	0.01	284799.6	210645.6	1	NO	NO	0.06	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284799.6	210645.6	0.005	NO	NO	0.02	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284799.6	210645.6	0.05	NO	NO	0.01	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284799.6	210645.6	2	NO	NO	0	POINT (284799.55 210645.61)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH113	236.95	3.86	GW1	16/01/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Zinc (Dissolved)	0.0081	mg/l	0.0025	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Selenium (Dissolved)	0.0018	mg/l	0.0005	284799.6	210645.6	0.01	NO	NO	0.18	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Fluorene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Naphthalene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Manganese (Dissolved)	0.84	mg/l	0.0005	284799.6	210645.6	0.05	NO	YES	16.8	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH121	230.88	3.3	19	24/01/2023	Sulphate	17	mg/l	1	284475.7	210703	250	NO	NO	0.07	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Cyanide (Total)	0.06	mg/l	0.05	284475.7	210703	0.05	NO	YES	1.2	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Calcium (Dissolved)	190	mg/l	2	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Total Phenols	< 0.03	mg/l	0.03	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Total Hardness as CaCO3	830	mg/l	15	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Dissolved Organic Carbon	2	mg/l	2	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Anthracene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Pyrene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Chrysene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284475.7	210703	1.00E-05	YES	NO	10	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	0.01	NO	NO	0.05	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284475.7	210703	0.001	NO	NO	0.05	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Nickel (Dissolved)	0.0026	mg/l	0.0005	284475.7	210703	0.02	NO	NO	0.13	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Arsenic (Dissolved)	0.00057	mg/l	0.0002	284475.7	210703	0.01	NO	NO	0.06	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Boron (Dissolved)	0.036	mg/l	0.01	284475.7	210703	1	NO	NO	0.04	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284475.7	210703	0.005	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	0.05	NO	NO	0.01	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	2	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	0.01	NO	NO	0.05	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Fluorene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Naphthalene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Manganese (Dissolved)	0.2	mg/l	0.0005	284475.7	210703	0.05	NO	YES	4	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Sulphate	34	mg/l	1	284475.7	210703	250	NO	NO	0.14	POINT (284475.72 210703)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH121	230.88	3.32	20	01/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284475.7	210703	0.05	NO	NO	1	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Calcium (Dissolved)	62	mg/l	2	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Total Phenols	< 0.03	mg/l	0.03	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Total Hardness as CaCO3	250	mg/l	15	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284475.7	210703	1.00E-05	YES	NO	10	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	0.01	NO	NO	0.05	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284475.7	210703	0.001	NO	NO	0.05	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Nickel (Dissolved)	0.0028	mg/l	0.0005	284475.7	210703	0.02	NO	NO	0.14	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284475.7	210703	0.01	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Boron (Dissolved)	0.03	mg/l	0.01	284475.7	210703	1	NO	NO	0.03	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284475.7	210703	0.005	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Chromium (Dissolved)	0.0019	mg/l	0.0005	284475.7	210703	0.05	NO	NO	0.04	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	2	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Zinc (Dissolved)	0.0037	mg/l	0.0025	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Selenium (Dissolved)	0.0018	mg/l	0.0005	284475.7	210703	0.01	NO	NO	0.18	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Manganese (Dissolved)	0.72	mg/l	0.0005	284475.7	210703	0.05	NO	YES	14.4	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Sulphate	60	mg/l	1	284475.7	210703	250	NO	NO	0.24	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284475.7	210703	0.05	NO	NO	1	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Calcium (Dissolved)	69	mg/l	2	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Total Phenols	< 0.03	mg/l	0.03	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Total Hardness as CaCO3	270	mg/l	15	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH121	230.88	3.28	21	13/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284475.7	210703	1.00E-05	YES	NO	10	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	0.01	NO	NO	0.05	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284475.7	210703	0.001	NO	NO	0.05	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Nickel (Dissolved)	0.001	mg/l	0.0005	284475.7	210703	0.02	NO	NO	0.05	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284475.7	210703	0.01	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Boron (Dissolved)	0.5	mg/l	0.01	284475.7	210703	1	NO	NO	0.5	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284475.7	210703	0.005	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Chromium (Dissolved)	0.0031	mg/l	0.0005	284475.7	210703	0.05	NO	NO	0.06	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	2	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Zinc (Dissolved)	0.0031	mg/l	0.0025	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	0.01	NO	NO	0.05	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Manganese (Dissolved)	0.75	mg/l	0.0005	284475.7	210703	0.05	NO	YES	15	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH122	230.82	1.76	22	24/01/2023	Sulphate	250	mg/l	1	284632.9	210701.3	250	NO	NO	1	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Cyanide (Total)	0.06	mg/l	0.05	284632.9	210701.3	0.05	NO	YES	1.2	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Calcium (Dissolved)	320	mg/l	2	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Total Phenols	< 0.03	mg/l	0.03	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Total Hardness as CaCO3	1600	mg/l	15	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Anthracene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Pyrene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Chrysene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284632.9	210701.3	1.00E-05	YES	NO	10	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.01	NO	NO	0.05	POINT (284632.9 210701.3)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH122	230.82	1.76	22	24/01/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284632.9	210701.3	0.001	NO	NO	0.05	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Nickel (Dissolved)	0.00072	mg/l	0.0005	284632.9	210701.3	0.02	NO	NO	0.04	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Arsenic (Dissolved)	0.00024	mg/l	0.0002	284632.9	210701.3	0.01	NO	NO	0.02	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Boron (Dissolved)	0.051	mg/l	0.01	284632.9	210701.3	1	NO	NO	0.05	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284632.9	210701.3	0.005	NO	NO	0.02	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.05	NO	NO	0.01	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	2	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.01	NO	NO	0.05	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Fluorene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Naphthalene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Manganese (Dissolved)	0.078	mg/l	0.0005	284632.9	210701.3	0.05	NO	YES	1.56	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Sulphate	270	mg/l	1	284632.9	210701.3	250	NO	YES	1.08	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284632.9	210701.3	0.05	NO	NO	1	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Calcium (Dissolved)	98	mg/l	2	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Total Phenols	< 0.03	mg/l	0.03	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Total Hardness as CaCO3	440	mg/l	15	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284632.9	210701.3	1.00E-05	YES	NO	10	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.01	NO	NO	0.05	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284632.9	210701.3	0.001	NO	NO	0.05	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Nickel (Dissolved)	0.001	mg/l	0.0005	284632.9	210701.3	0.02	NO	NO	0.05	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284632.9	210701.3	0.01	NO	NO	0.02	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Boron (Dissolved)	0.042	mg/l	0.01	284632.9	210701.3	1	NO	NO	0.04	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284632.9	210701.3	0.005	NO	NO	0.02	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Chromium (Dissolved)	0.0019	mg/l	0.0005	284632.9	210701.3	0.05	NO	NO	0.04	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	2	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Selenium (Dissolved)	0.0023	mg/l	0.0005	284632.9	210701.3	0.01	NO	NO	0.23	POINT (284632.9 210701.3)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH122	230.82	1.76	23	01/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Manganese (Dissolved)	0.56	mg/l	0.0005	284632.9	210701.3	0.05	NO	YES	11.2	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Sulphate	260	mg/l	1	284632.9	210701.3	250	NO	YES	1.04	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284632.9	210701.3	0.05	NO	NO	1	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Calcium (Dissolved)	110	mg/l	2	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Total Phenols	< 0.03	mg/l	0.03	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Total Hardness as CaCO3	440	mg/l	15	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284632.9	210701.3	1.00E-05	YES	NO	10	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.01	NO	NO	0.05	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284632.9	210701.3	0.001	NO	NO	0.05	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.02	NO	NO	0.02	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284632.9	210701.3	0.01	NO	NO	0.02	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Boron (Dissolved)	0.72	mg/l	0.01	284632.9	210701.3	1	NO	NO	0.72	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284632.9	210701.3	0.005	NO	NO	0.02	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Chromium (Dissolved)	0.0028	mg/l	0.0005	284632.9	210701.3	0.05	NO	NO	0.06	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	2	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Zinc (Dissolved)	0.0071	mg/l	0.0025	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.01	NO	NO	0.05	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Manganese (Dissolved)	0.82	mg/l	0.0005	284632.9	210701.3	0.05	NO	YES	16.4	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
SOP003.16	238.78	11	1	29/11/2022	Sulphate	200	mg/l	1	284914.1	210570.6	250	NO	NO	0.8	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284914.1	210570.6	0.05	NO	NO	1	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Calcium (Dissolved)	72	mg/l	2	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SOP003.16	238.78	11	1	29/11/2022	Total Phenols	< 0.03	mg/l	0.03	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Total Hardness as CaCO3	290	mg/l	15	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Dissolved Organic Carbon	< 2.0	mg/l	2	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Acenaphthylene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Chrysene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6	1.00E-05	YES	NO	10	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.01	NO	NO	0.05	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284914.1	210570.6	0.001	NO	NO	0.05	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Nickel (Dissolved)	0.0049	mg/l	0.0005	284914.1	210570.6	0.02	NO	NO	0.25	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284914.1	210570.6	0.01	NO	NO	0.02	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Boron (Dissolved)	0.52	mg/l	0.01	284914.1	210570.6	1	NO	NO	0.52	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284914.1	210570.6	0.005	NO	NO	0.02	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.05	NO	NO	0.01	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	2	NO	NO	0	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Zinc (Dissolved)	0.017	mg/l	0.0025	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Selenium (Dissolved)	0.00082	mg/l	0.0005	284914.1	210570.6	0.01	NO	NO	0.08	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Acenaphthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Phenanthrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Fluorene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Naphthalene	0.00015	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Manganese (Dissolved)	1.4	mg/l	0.0005	284914.1	210570.6	0.05	NO	YES	28	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Total Of 16 PAH's	< 0.002	mg/l	0.002	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Sulphate	160	mg/l	1	284914.1	210570.6	250	NO	NO	0.64	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284914.1	210570.6	0.05	NO	NO	1	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Calcium (Dissolved)	290	mg/l	2	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Total Phenols	< 0.03	mg/l	0.03	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Total Hardness as CaCO3	1100	mg/l	15	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SOP003.16	238.78	13.6	2	25/01/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Chrysene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6	1.00E-05	YES	NO	10	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.01	NO	NO	0.05	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284914.1	210570.6	0.001	NO	NO	0.05	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Nickel (Dissolved)	0.0021	mg/l	0.0005	284914.1	210570.6	0.02	NO	NO	0.11	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Arsenic (Dissolved)	0.00051	mg/l	0.0002	284914.1	210570.6	0.01	NO	NO	0.05	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Boron (Dissolved)	0.053	mg/l	0.01	284914.1	210570.6	1	NO	NO	0.05	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284914.1	210570.6	0.005	NO	NO	0.02	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.05	NO	NO	0.01	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	2	NO	NO	0	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Zinc (Dissolved)	0.011	mg/l	0.0025	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.01	NO	NO	0.05	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Fluorene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Naphthalene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Manganese (Dissolved)	0.78	mg/l	0.0005	284914.1	210570.6	0.05	NO	YES	15.6	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Sulphate	170	mg/l	1	284914.1	210570.6	250	NO	NO	0.68	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284914.1	210570.6	0.05	NO	NO	1	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Calcium (Dissolved)	71	mg/l	2	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Total Phenols	< 0.03	mg/l	0.03	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Total Hardness as CaCO3	280	mg/l	15	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6	1.00E-05	YES	NO	10	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.01	NO	NO	0.05	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284914.1	210570.6	0.001	NO	NO	0.05	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Nickel (Dissolved)	0.0015	mg/l	0.0005	284914.1	210570.6	0.02	NO	NO	0.08	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Arsenic (Dissolved)	0.0011	mg/l	0.0002	284914.1	210570.6	0.01	NO	NO	0.11	POINT (284914.08 210570.58)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SOP003.16	238.78	13.56	3	02/02/2023	Boron (Dissolved)	0.055	mg/l	0.01	284914.1	210570.6	1	NO	NO	0.06	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284914.1	210570.6	0.005	NO	NO	0.02	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Chromium (Dissolved)	0.0012	mg/l	0.0005	284914.1	210570.6	0.05	NO	NO	0.02	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	2	NO	NO	0	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Zinc (Dissolved)	0.0088	mg/l	0.0025	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Selenium (Dissolved)	0.00073	mg/l	0.0005	284914.1	210570.6	0.01	NO	NO	0.07	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Manganese (Dissolved)	0.87	mg/l	0.0005	284914.1	210570.6	0.05	NO	YES	17.4	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Sulphate	150	mg/l	1	284914.1	210570.6	250	NO	NO	0.6	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284914.1	210570.6	0.05	NO	NO	1	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Calcium (Dissolved)	74	mg/l	2	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Total Phenols	< 0.03	mg/l	0.03	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Total Hardness as CaCO3	280	mg/l	15	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6	1.00E-05	YES	NO	10	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.01	NO	NO	0.05	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284914.1	210570.6	0.001	NO	NO	0.05	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.02	NO	NO	0.02	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284914.1	210570.6	0.01	NO	NO	0.02	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Boron (Dissolved)	0.054	mg/l	0.01	284914.1	210570.6	1	NO	NO	0.05	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284914.1	210570.6	0.005	NO	NO	0.02	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Chromium (Dissolved)	0.00079	mg/l	0.0005	284914.1	210570.6	0.05	NO	NO	0.02	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	2	NO	NO	0	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.01	NO	NO	0.05	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SOP003.16	238.78	13.66	4	14/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Manganese (Dissolved)	0.74	mg/l	0.0005	284914.1	210570.6	0.05	NO	YES	14.8	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
BH29	230.74	0.83	1		PAH Sum of 4 - calculated		mg/l	4.00E-05	284719.5	210705.4	0.0001	NO	NO	0.4	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	PAH Sum of 4 - calculated		mg/l	4.00E-05	284719.5	210705.4	0.0001	NO	NO	0.4	POINT (284719.48 210705.39)
BH30	239.1	3.2	1		PAH Sum of 4 - calculated		mg/l	4.00E-05	284925.7	210549.4	0.0001	NO	NO	0.4	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	PAH Sum of 4 - calculated		mg/l	4.00E-05	284925.7	210549.4	0.0001	NO	NO	0.4	POINT (284925.69 210549.41)
BH31	238.61	4.5	1		PAH Sum of 4 - calculated		mg/l	4.00E-05	284880.8	210454.8	0.0001	NO	NO	0.4	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	PAH Sum of 4 - calculated		mg/l	4.00E-05	284880.8	210454.8	0.0001	NO	NO	0.4	POINT (284880.77 210454.81)
BH32	244.73	4.76	1		PAH Sum of 4 - calculated		mg/l	4.00E-05	284968	210230	0.0001	NO	NO	0.4	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	PAH Sum of 4 - calculated		mg/l	4.00E-05	284968	210230	0.0001	NO	NO	0.4	POINT (284967.95 210230.01)
BH33	230.51	0.41	1		PAH Sum of 4 - calculated		mg/l	4.00E-05	284397	210700.9	0.0001	NO	NO	0.4	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	PAH Sum of 4 - calculated		mg/l	4.00E-05	284397	210700.9	0.0001	NO	NO	0.4	POINT (284397.04 210700.88)
BH34	232.64	5.09	1		PAH Sum of 4 - calculated		mg/l	4.00E-05	284419.6	210543.6	0.0001	NO	NO	0.4	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	PAH Sum of 4 - calculated		mg/l	4.00E-05	284419.6	210543.6	0.0001	NO	NO	0.4	POINT (284419.61 210543.6)
S1-BH101	241.16	13.51	45	02/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284925.4	210692	0.0001	YES	NO	4	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284925.4	210692	0.0001	YES	NO	4	POINT (284925.38 210692.01)
S1-BH102	230.73	8.72	28	24/01/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284544.5	210695.4	0.0001	YES	NO	4	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284544.5	210695.4	0.0001	YES	NO	4	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284544.5	210695.4	0.0001	YES	NO	4	POINT (284544.49 210695.4)
S1-BH103	234.33	5.54	36	25/01/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284603.2	210646.5	0.0001	YES	NO	4	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284603.2	210646.5	0.0001	YES	NO	4	POINT (284603.15 210646.48)
S1-BH105	236.49	15.36	37	01/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284719	210649.9	0.0001	YES	NO	4	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284719	210649.9	0.0001	YES	NO	4	POINT (284718.99 210649.88)
S1-BH112	237.94	15	26	02/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284882.1	210600	0.0001	YES	NO	4	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284882.1	210600	0.0001	YES	NO	4	POINT (284882.07 210599.97)
S1-BH113	236.95	5.54	31	01/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284799.6	210645.6	0.0001	YES	NO	4	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284799.6	210645.6	0.0001	YES	NO	4	POINT (284799.55 210645.61)
S1-BH121	230.88	3.3	19	24/01/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284475.7	210703	0.0001	YES	NO	4	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284475.7	210703	0.0001	YES	NO	4	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284475.7	210703	0.0001	YES	NO	4	POINT (284475.72 210703)
S1-BH122	230.82	1.76	22	24/01/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284632.9	210701.3	0.0001	YES	NO	4	POINT (284632.9 210701.3)
SOP003.16	238.78	11	1	29/11/2022	PAH Sum of 4 - calculated		mg/l	0.0004	284914.1	210570.6	0.0001	YES	NO	4	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284914.1	210570.6	0.0001	YES	NO	4	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284914.1	210570.6	0.0001	YES	NO	4	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284914.1	210570.6	0.0001	YES	NO	4	POINT (284914.08 210570.58)
BH29	230.74	0.83	1		Sum Xylenes - calculated		mg/l	0.002	284719.5	210705.4	0.5	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Sum Xylenes - calculated		mg/l	0.002	284719.5	210705.4	0.5	NO	NO	0	POINT (284719.48 210705.39)
BH30	239.1	3.2	1		Sum Xylenes - calculated		mg/l	0.002	284925.7	210549.4	0.5	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Sum Xylenes - calculated		mg/l	0.002	284925.7	210549.4	0.5	NO	NO	0	POINT (284925.69 210549.41)
BH31	238.61	4.5	1		Sum Xylenes - calculated		mg/l	0.002	284880.8	210454.8	0.5	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Sum Xylenes - calculated		mg/l	0.002	284880.8	210454.8	0.5	NO	NO	0	POINT (284880.77 210454.81)
BH32	244.73	4.76	1		Sum Xylenes - calculated		mg/l	0.002	284968	210230	0.5	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Sum Xylenes - calculated		mg/l	0.002	284968	210230	0.5	NO	NO	0	POINT (284967.95 210230.01)
BH33	230.51	0.41	1		Sum Xylenes - calculated		mg/l	0.002	284397	210700.9	0.5	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Sum Xylenes - calculated		mg/l	0.002	284397	210700.9	0.5	NO	NO	0	POINT (284397.04 210700.88)
BH34	232.64	5.09	1		Sum Xylenes - calculated		mg/l	0.002	284419.6	210543.6	0.5	NO	NO	0	POINT (284419.61 210543.6)

Appendix I.3

Table 3 Groundwater Screening DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH34	232.64	4.76	2	14/03/2022	Sum Xylenes - calculated		mg/l	0.002	284419.6	210543.6	0.5	NO	NO	0	POINT (284419.61 210543.6)
BH29	230.74	0.83	1		pH	8	-	0	284719.5	210705.4	6.5-9.5		NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	pH	7.7	-	0	284719.5	210705.4	6.5-9.5		NO		POINT (284719.48 210705.39)
BH30	239.1	3.2	1		pH	8.2	-	0	284925.7	210549.4	6.5-9.5		NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	pH	7.2	-	0	284925.7	210549.4	6.5-9.5		NO		POINT (284925.69 210549.41)
BH31	238.61	4.5	1		pH	7.9	-	0	284880.8	210454.8	6.5-9.5		NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	pH	7.8	-	0	284880.8	210454.8	6.5-9.5		NO		POINT (284880.77 210454.81)
BH32	244.73	4.76	1		pH	8.2	-	0	284968	210230	6.5-9.5		NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	pH	7.6	-	0	284968	210230	6.5-9.5		NO		POINT (284967.95 210230.01)
BH33	230.51	0.41	1		pH	8.3	-	0	284397	210700.9	6.5-9.5		NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	pH	7.7	-	0	284397	210700.9	6.5-9.5		NO		POINT (284397.04 210700.88)
BH34	232.64	5.09	1		pH	8.4	-	0	284419.6	210543.6	6.5-9.5		NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	pH	7.8	-	0	284419.6	210543.6	6.5-9.5		NO		POINT (284419.61 210543.6)
S1-BH101	241.16	13.51	45	02/02/2023	pH	8.1	-	0	284925.4	210692	6.5-9.5		NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	pH	7	-	0	284925.4	210692	6.5-9.5		NO		POINT (284925.38 210692.01)
S1-BH102	230.73	8.72	28	24/01/2023	pH	7.4	-	0	284544.5	210695.4	6.5-9.5		NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	pH	7.6	-	0	284544.5	210695.4	6.5-9.5		NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	pH	4.2	-	0	284544.5	210695.4	6.5-9.5		YES		POINT (284544.49 210695.4)
S1-BH103	234.33	5.54	36	25/01/2023	pH	8	-	0	284603.2	210646.5	6.5-9.5		NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	pH	8.1	-	0	284603.2	210646.5	6.5-9.5		NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	pH	7	-	0	284603.2	210646.5	6.5-9.5		NO		POINT (284603.15 210646.48)
S1-BH105	236.49	15.36	37	01/02/2023	pH	7.5	-	0	284719	210649.9	6.5-9.5		NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	pH	4.8	-	0	284719	210649.9	6.5-9.5		YES		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	pH	6.7	-	0	284719	210649.9	6.5-9.5		NO		POINT (284718.99 210649.88)
S1-BH112	237.94	15	26	02/02/2023	pH	7.9	-	0	284882.1	210600	6.5-9.5		NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	pH	5.5	-	0	284882.1	210600	6.5-9.5		YES		POINT (284882.07 210599.97)
S1-BH113	236.95	5.54	31	01/02/2023	pH	7.4	-	0	284799.6	210645.6	6.5-9.5		NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	pH	7.2	-	0	284799.6	210645.6	6.5-9.5		NO		POINT (284799.55 210645.61)
S1-BH121	230.88	3.3	19	24/01/2023	pH	7.6	-	0	284475.7	210703	6.5-9.5		NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	pH	7.6	-	0	284475.7	210703	6.5-9.5		NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	pH	4.1	-	0	284475.7	210703	6.5-9.5		YES		POINT (284475.72 210703)
S1-BH122	230.82	1.76	22	24/01/2023	pH	7.6	-	0	284632.9	210701.3	6.5-9.5		NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	pH	7.5	-	0	284632.9	210701.3	6.5-9.5		NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	pH	4.1	-	0	284632.9	210701.3	6.5-9.5		YES		POINT (284632.9 210701.3)
SOP003.16	238.78	11	1	29/11/2022	pH	7.2	-	0	284914.1	210570.6	6.5-9.5		NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	pH	7.7	-	0	284914.1	210570.6	6.5-9.5		NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	pH	7.3	-	0	284914.1	210570.6	6.5-9.5		NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	pH	5.9	-	0	284914.1	210570.6	6.5-9.5		YES		POINT (284914.08 210570.58)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH29	230.74	0.83	1		Alkalinity (Bicarbonate)	310	mg CaCO3/	10	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Sulphate	6.3	mg/l	1	284719.5	210705.4	400	NO	NO	0.02	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Chloride	16	mg/l	1	284719.5	210705.4	250	NO	NO	0.06	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Fluoride	0.29	mg/l	0.05	284719.5	210705.4	1	NO	NO	0.29	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Cyanide (Total)	< 0.05	mg/l	0.05	284719.5	210705.4	0.001	YES	NO	50	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Magnesium	11	mg/l	0.2	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Potassium	11	mg/l	0.5	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Sodium	46	mg/l	1.5	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Calcium	40	mg/l	2	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Ammonia (Free)	< 0.05	mg/l	0.05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Total Phenols	< 0.03	mg/l	0.03	284719.5	210705.4	0.0077	YES	NO	3.9	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Total Hardness as CaCO3	140	mg/l	15	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Nitrate	1.7	mg/l	0.5	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Dissolved Organic Carbon	65	mg/l	2	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Ethylbenzene	< 0.001	mg/l	0.001	284719.5	210705.4	0.02	NO	NO	0.05	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Toluene	< 0.001	mg/l	0.001	284719.5	210705.4	0.074	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Anthracene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4	0.0001	NO	NO	0.1	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Pyrene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Fluoranthene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4	6.30E-06	YES	NO	1.59	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Acenaphthylene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Chrysene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		PCB 118	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		PCB 153	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		PCB 138	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		PCB 180	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		PCB 52	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		PCB 90+101	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4	1.70E-07	YES	NO	58.82	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		PCB 28	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Benzene	< 0.001	mg/l	0.001	284719.5	210705.4	0.01	NO	NO	0.1	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Lead (Dissolved)	< 0.0005	mg/l	0.0005	284719.5	210705.4	0.0012	NO	NO	0.42	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284719.5	210705.4	7.00E-05	NO	NO	0.71	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Nickel (Dissolved)	0.0012	mg/l	0.0005	284719.5	210705.4	0.004	NO	NO	0.3	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Arsenic (Dissolved)	0.0022	mg/l	0.0002	284719.5	210705.4	0.05	NO	NO	0.04	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284719.5	210705.4	8.00E-05	YES	NO	1.38	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284719.5	210705.4	0.0047	NO	NO	0.11	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Copper (Dissolved)	0.00098	mg/l	0.0005	284719.5	210705.4	0.001	NO	NO	0.98	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Zinc (Dissolved)	0.016	mg/l	0.0025	284719.5	210705.4	0.014	NO	YES	1.14	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Acenaphthene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH29	230.74	0.83	1		Phenanthrene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Fluorene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Naphthalene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4	0.002	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		o-Xylene	< 0.001	mg/l	0.001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		m & p-Xylene	< 0.001	mg/l	0.001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Alkalinity (Bicarbonate)	320	mg CaCO3/	10	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Sulphate	2.1	mg/l	1	284719.5	210705.4	400	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Chloride	18	mg/l	1	284719.5	210705.4	250	NO	NO	0.07	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Fluoride	0.35	mg/l	0.05	284719.5	210705.4	1	NO	NO	0.35	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284719.5	210705.4	0.001	YES	NO	50	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Magnesium	11	mg/l	0.2	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Potassium	11	mg/l	0.5	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Sodium	44	mg/l	1.5	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Calcium	36	mg/l	2	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Ammonia (Free)	< 0.05	mg/l	0.05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Total Phenols	< 0.03	mg/l	0.03	284719.5	210705.4	0.0077	YES	NO	3.9	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Total Hardness as CaCO3	140	mg/l	15	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Nitrate	< 0.5	mg/l	0.5	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Dissolved Organic Carbon	61	mg/l	2	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Ethylbenzene	< 0.001	mg/l	0.001	284719.5	210705.4	0.02	NO	NO	0.05	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Toluene	< 0.001	mg/l	0.001	284719.5	210705.4	0.074	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Anthracene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4	0.0001	NO	NO	0.1	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Pyrene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH29	230.74	0.76	2	14/03/2022	Fluoranthene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4	6.30E-06	YES	NO	1.59	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Chrysene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	PCB 118	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	PCB 153	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	PCB 138	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	PCB 180	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	PCB 52	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	PCB 90+101	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4	1.70E-07	YES	NO	58.82	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	PCB 28	< 1e-06	mg/l	1.00E-06	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Benzene	< 0.001	mg/l	0.001	284719.5	210705.4	0.01	NO	NO	0.1	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284719.5	210705.4	0.0012	NO	NO	0.42	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284719.5	210705.4	7.00E-05	NO	NO	0.71	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Nickel (Dissolved)	0.0006	mg/l	0.0005	284719.5	210705.4	0.004	NO	NO	0.15	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Arsenic (Dissolved)	0.0011	mg/l	0.0002	284719.5	210705.4	0.05	NO	NO	0.02	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284719.5	210705.4	8.00E-05	YES	NO	1.38	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284719.5	210705.4	0.0047	NO	NO	0.11	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284719.5	210705.4	0.001	NO	NO	0.5	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Zinc (Dissolved)	0.0099	mg/l	0.0025	284719.5	210705.4	0.014	NO	NO	0.71	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Acenaphthene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Phenanthrene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Fluorene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Naphthalene	< 1e-05	mg/l	1.00E-05	284719.5	210705.4	0.002	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	o-Xylene	< 0.001	mg/l	0.001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	m & p-Xylene	< 0.001	mg/l	0.001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284719.5	210705.4	0.01	NO	NO	0.01	POINT (284719.48 210705.39)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH29	230.74	0.76	2	14/03/2022	Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH30	239.1	3.2	1		Alkalinity (Bicarbonate)	300	mg CaCO3/	10	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Sulphate	32	mg/l	1	284925.7	210549.4	400	NO	NO	0.08	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Chloride	170	mg/l	1	284925.7	210549.4	250	NO	NO	0.68	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Fluoride	0.14	mg/l	0.05	284925.7	210549.4	1	NO	NO	0.14	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Cyanide (Total)	< 0.05	mg/l	0.05	284925.7	210549.4	0.001	YES	NO	50	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Magnesium	16	mg/l	0.2	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Potassium	29	mg/l	0.5	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Sodium	93	mg/l	1.5	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Calcium	68	mg/l	2	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Ammonia (Free)	0.081	mg/l	0.05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Total Phenols	< 0.03	mg/l	0.03	284925.7	210549.4	0.0077	YES	NO	3.9	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Total Hardness as CaCO3	240	mg/l	15	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Nitrate	< 0.5	mg/l	0.5	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Dissolved Organic Carbon	62	mg/l	2	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Ethylbenzene	< 0.001	mg/l	0.001	284925.7	210549.4	0.02	NO	NO	0.05	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Toluene	< 0.001	mg/l	0.001	284925.7	210549.4	0.074	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Anthracene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4	0.0001	NO	NO	0.1	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Pyrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Fluoranthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4	6.30E-06	YES	NO	1.59	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Acenaphthylene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Chrysene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		PCB 118	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		PCB 153	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		PCB 138	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		PCB 180	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		PCB 52	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		PCB 90+101	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4	1.70E-07	YES	NO	58.82	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		PCB 28	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Benzene	< 0.001	mg/l	0.001	284925.7	210549.4	0.01	NO	NO	0.1	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Lead (Dissolved)	< 0.0005	mg/l	0.0005	284925.7	210549.4	0.0012	NO	NO	0.42	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284925.7	210549.4	7.00E-05	NO	NO	0.71	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Nickel (Dissolved)	0.0024	mg/l	0.0005	284925.7	210549.4	0.004	NO	NO	0.6	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Arsenic (Dissolved)	0.00056	mg/l	0.0002	284925.7	210549.4	0.05	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284925.7	210549.4	8.00E-05	YES	NO	1.38	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Chromium (Dissolved)	0.0089	mg/l	0.0005	284925.7	210549.4	0.0047	NO	YES	1.89	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Copper (Dissolved)	0.0022	mg/l	0.0005	284925.7	210549.4	0.001	NO	YES	2.2	POINT (284925.69 210549.41)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH30	239.1	3.2	1		Zinc (Dissolved)	0.017	mg/l	0.0025	284925.7	210549.4	0.014	NO	YES	1.21	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Acenaphthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Phenanthrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Fluorene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Naphthalene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4	0.002	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		o-Xylene	< 0.001	mg/l	0.001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		m & p-Xylene	< 0.001	mg/l	0.001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Alkalinity (Bicarbonate)	360	mg CaCO3/	10	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Sulphate	330	mg/l	1	284925.7	210549.4	400	NO	NO	0.82	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Chloride	38	mg/l	1	284925.7	210549.4	250	NO	NO	0.15	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Fluoride	0.13	mg/l	0.05	284925.7	210549.4	1	NO	NO	0.13	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284925.7	210549.4	0.001	YES	NO	50	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Magnesium	38	mg/l	0.2	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Potassium	8.9	mg/l	0.5	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Sodium	60	mg/l	1.5	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Calcium	110	mg/l	2	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Ammonia (Free)	< 0.05	mg/l	0.05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Total Phenols	< 0.03	mg/l	0.03	284925.7	210549.4	0.0077	YES	NO	3.9	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Total Hardness as CaCO3	440	mg/l	15	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Nitrate	1.5	mg/l	0.5	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Dissolved Organic Carbon	71	mg/l	2	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Ethylbenzene	< 0.001	mg/l	0.001	284925.7	210549.4	0.02	NO	NO	0.05	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Toluene	< 0.001	mg/l	0.001	284925.7	210549.4	0.074	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Anthracene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4	0.0001	NO	NO	0.1	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Pyrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH30	239.1	3.03	2	14/03/2022	Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Fluoranthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4	6.30E-06	YES	NO	1.59	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Chrysene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	PCB 118	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	PCB 153	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	PCB 138	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	PCB 180	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	PCB 52	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	PCB 90+101	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4	1.70E-07	YES	NO	58.82	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	PCB 28	< 1e-06	mg/l	1.00E-06	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Benzene	< 0.001	mg/l	0.001	284925.7	210549.4	0.01	NO	NO	0.1	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284925.7	210549.4	0.0012	NO	NO	0.42	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284925.7	210549.4	7.00E-05	NO	NO	0.71	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Nickel (Dissolved)	0.0047	mg/l	0.0005	284925.7	210549.4	0.004	NO	YES	1.18	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Arsenic (Dissolved)	0.00055	mg/l	0.0002	284925.7	210549.4	0.05	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284925.7	210549.4	8.00E-05	YES	NO	1.38	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284925.7	210549.4	0.0047	NO	NO	0.11	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Copper (Dissolved)	0.0011	mg/l	0.0005	284925.7	210549.4	0.001	NO	YES	1.1	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Zinc (Dissolved)	0.0053	mg/l	0.0025	284925.7	210549.4	0.014	NO	NO	0.38	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Acenaphthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Phenanthrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Fluorene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Naphthalene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4	0.002	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	o-Xylene	< 0.001	mg/l	0.001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	m & p-Xylene	< 0.001	mg/l	0.001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH30	239.1	3.03	2	14/03/2022	Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284925.7	210549.4	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH31	238.61	4.5	1		Alkalinity (Bicarbonate)	370	mg CaCO3/	10	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Sulphate	310	mg/l	1	284880.8	210454.8	400	NO	NO	0.78	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Chloride	49	mg/l	1	284880.8	210454.8	250	NO	NO	0.2	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Fluoride	0.12	mg/l	0.05	284880.8	210454.8	1	NO	NO	0.12	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Cyanide (Total)	< 0.05	mg/l	0.05	284880.8	210454.8	0.001	YES	NO	50	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Magnesium	38	mg/l	0.2	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Potassium	11	mg/l	0.5	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Sodium	75	mg/l	1.5	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Calcium	120	mg/l	2	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Ammonia (Free)	0.073	mg/l	0.05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Total Phenols	< 0.03	mg/l	0.03	284880.8	210454.8	0.0077	YES	NO	3.9	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Total Hardness as CaCO3	450	mg/l	15	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Nitrate	1.4	mg/l	0.5	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Dissolved Organic Carbon	82	mg/l	2	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Ethylbenzene	< 0.001	mg/l	0.001	284880.8	210454.8	0.02	NO	NO	0.05	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Toluene	< 0.001	mg/l	0.001	284880.8	210454.8	0.074	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Anthracene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8	0.0001	NO	NO	0.1	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Pyrene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Fluoranthene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8	6.30E-06	YES	NO	1.59	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Acenaphthylene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Chrysene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		PCB 118	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		PCB 153	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		PCB 138	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		PCB 180	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		PCB 52	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		PCB 90+101	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8	1.70E-07	YES	NO	58.82	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		PCB 28	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Benzene	< 0.001	mg/l	0.001	284880.8	210454.8	0.01	NO	NO	0.1	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Lead (Dissolved)	< 0.0005	mg/l	0.0005	284880.8	210454.8	0.0012	NO	NO	0.42	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284880.8	210454.8	7.00E-05	NO	NO	0.71	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Nickel (Dissolved)	0.0044	mg/l	0.0005	284880.8	210454.8	0.004	NO	YES	1.1	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Arsenic (Dissolved)	0.00039	mg/l	0.0002	284880.8	210454.8	0.05	NO	NO	0.01	POINT (284880.77 210454.81)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH31	238.61	4.5	1		Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284880.8	210454.8	8.00E-05	YES	NO	1.38	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284880.8	210454.8	0.0047	NO	NO	0.11	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Copper (Dissolved)	0.0024	mg/l	0.0005	284880.8	210454.8	0.001	NO	YES	2.4	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Zinc (Dissolved)	0.011	mg/l	0.0025	284880.8	210454.8	0.014	NO	NO	0.79	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Acenaphthene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Phenanthrene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Fluorene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Naphthalene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8	0.002	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		o-Xylene	< 0.001	mg/l	0.001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		m & p-Xylene	< 0.001	mg/l	0.001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Alkalinity (Bicarbonate)	410	mg CaCO3/	10	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Sulphate	110	mg/l	1	284880.8	210454.8	400	NO	NO	0.28	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Chloride	33	mg/l	1	284880.8	210454.8	250	NO	NO	0.13	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Fluoride	0.2	mg/l	0.05	284880.8	210454.8	1	NO	NO	0.2	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284880.8	210454.8	0.001	YES	NO	50	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Magnesium	30	mg/l	0.2	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Potassium	18	mg/l	0.5	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Sodium	62	mg/l	1.5	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Calcium	63	mg/l	2	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Ammonia (Free)	< 0.05	mg/l	0.05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Total Phenols	< 0.03	mg/l	0.03	284880.8	210454.8	0.0077	YES	NO	3.9	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Total Hardness as CaCO3	280	mg/l	15	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Nitrate	0.58	mg/l	0.5	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Dissolved Organic Carbon	78	mg/l	2	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Ethylbenzene	< 0.001	mg/l	0.001	284880.8	210454.8	0.02	NO	NO	0.05	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Toluene	< 0.001	mg/l	0.001	284880.8	210454.8	0.074	NO	NO	0.01	POINT (284880.77 210454.81)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH31	238.61	4.62	2	14/03/2022	Anthracene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8	0.0001	NO	NO	0.1	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Pyrene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Fluoranthene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8	6.30E-06	YES	NO	1.59	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Chrysene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	PCB 118	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	PCB 153	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	PCB 138	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	PCB 180	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	PCB 52	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	PCB 90+101	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8	1.70E-07	YES	NO	58.82	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	PCB 28	< 1e-06	mg/l	1.00E-06	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Benzene	< 0.001	mg/l	0.001	284880.8	210454.8	0.01	NO	NO	0.1	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284880.8	210454.8	0.0012	NO	NO	0.42	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284880.8	210454.8	7.00E-05	NO	NO	0.71	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Nickel (Dissolved)	0.0033	mg/l	0.0005	284880.8	210454.8	0.004	NO	NO	0.82	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Arsenic (Dissolved)	0.00025	mg/l	0.0002	284880.8	210454.8	0.05	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284880.8	210454.8	8.00E-05	YES	NO	1.38	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284880.8	210454.8	0.0047	NO	NO	0.11	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Copper (Dissolved)	0.00069	mg/l	0.0005	284880.8	210454.8	0.001	NO	NO	0.69	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Zinc (Dissolved)	0.034	mg/l	0.0025	284880.8	210454.8	0.014	NO	YES	2.43	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Selenium (Dissolved)	0.0012	mg/l	0.0005	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Acenaphthene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Phenanthrene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Fluorene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Naphthalene	< 1e-05	mg/l	1.00E-05	284880.8	210454.8	0.002	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	o-Xylene	< 0.001	mg/l	0.001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	m & p-Xylene	< 0.001	mg/l	0.001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH31	238.61	4.62	2	14/03/2022	Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284880.8	210454.8	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH32	244.73	4.76	1		Alkalinity (Bicarbonate)	340	mg CaCO3/	10	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Sulphate	67	mg/l	1	284968	210230	400	NO	NO	0.17	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Chloride	51	mg/l	1	284968	210230	250	NO	NO	0.2	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Fluoride	0.18	mg/l	0.05	284968	210230	1	NO	NO	0.18	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Cyanide (Total)	< 0.05	mg/l	0.05	284968	210230	0.001	YES	NO	50	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Magnesium	13	mg/l	0.2	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Potassium	17	mg/l	0.5	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Sodium	100	mg/l	1.5	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Calcium	43	mg/l	2	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Ammonia (Free)	< 0.05	mg/l	0.05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Total Phenols	< 0.03	mg/l	0.03	284968	210230	0.0077	YES	NO	3.9	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Total Hardness as CaCO3	160	mg/l	15	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Nitrate	0.88	mg/l	0.5	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Dissolved Organic Carbon	73	mg/l	2	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Ethylbenzene	< 0.001	mg/l	0.001	284968	210230	0.02	NO	NO	0.05	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Toluene	< 0.001	mg/l	0.001	284968	210230	0.074	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Anthracene	< 1e-05	mg/l	1.00E-05	284968	210230	0.0001	NO	NO	0.1	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Pyrene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Fluoranthene	< 1e-05	mg/l	1.00E-05	284968	210230	6.30E-06	YES	NO	1.59	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Acenaphthylene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Chrysene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		PCB 118	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		PCB 153	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		PCB 138	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		PCB 180	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		PCB 52	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		PCB 90+101	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284968	210230	1.70E-07	YES	NO	58.82	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		PCB 28	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Benzene	< 0.001	mg/l	0.001	284968	210230	0.01	NO	NO	0.1	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Lead (Dissolved)	< 0.0005	mg/l	0.0005	284968	210230	0.0012	NO	NO	0.42	POINT (284967.95 210230.01)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH32	244.73	4.76	1		Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284968	210230	7.00E-05	NO	NO	0.71	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Nickel (Dissolved)	0.0028	mg/l	0.0005	284968	210230	0.004	NO	NO	0.7	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Arsenic (Dissolved)	0.0014	mg/l	0.0002	284968	210230	0.05	NO	NO	0.03	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284968	210230	8.00E-05	YES	NO	1.38	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Chromium (Dissolved)	0.0088	mg/l	0.0005	284968	210230	0.0047	NO	YES	1.87	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Copper (Dissolved)	0.0033	mg/l	0.0005	284968	210230	0.001	NO	YES	3.3	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Zinc (Dissolved)	0.033	mg/l	0.0025	284968	210230	0.014	NO	YES	2.36	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Selenium (Dissolved)	0.0014	mg/l	0.0005	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Acenaphthene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Phenanthrene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Fluorene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Naphthalene	< 1e-05	mg/l	1.00E-05	284968	210230	0.002	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		o-Xylene	< 0.001	mg/l	0.001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		m & p-Xylene	< 0.001	mg/l	0.001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Alkalinity (Bicarbonate)	230	mg CaCO3/	10	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Sulphate	3	mg/l	1	284968	210230	400	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Chloride	250	mg/l	1	284968	210230	250	NO	NO	1	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Fluoride	0.15	mg/l	0.05	284968	210230	1	NO	NO	0.15	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284968	210230	0.001	YES	NO	50	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Magnesium	32	mg/l	0.2	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Potassium	77	mg/l	0.5	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Sodium	45	mg/l	1.5	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Calcium	62	mg/l	2	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Ammonia (Free)	0.059	mg/l	0.05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Total Phenols	< 0.03	mg/l	0.03	284968	210230	0.0077	YES	NO	3.9	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Total Hardness as CaCO3	290	mg/l	15	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Nitrate	< 0.5	mg/l	0.5	284968	210230		NO	NO		POINT (284967.95 210230.01)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH32	244.73	4.28	2	14/03/2022	Dissolved Organic Carbon	57	mg/l	2	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Ethylbenzene	< 0.001	mg/l	0.001	284968	210230	0.02	NO	NO	0.05	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Toluene	< 0.001	mg/l	0.001	284968	210230	0.074	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Anthracene	< 1e-05	mg/l	1.00E-05	284968	210230	0.0001	NO	NO	0.1	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Pyrene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Fluoranthene	< 1e-05	mg/l	1.00E-05	284968	210230	6.30E-06	YES	NO	1.59	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Chrysene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	PCB 118	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	PCB 153	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	PCB 138	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	PCB 180	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	PCB 52	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	PCB 90+101	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284968	210230	1.70E-07	YES	NO	58.82	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	PCB 28	< 1e-06	mg/l	1.00E-06	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Benzene	< 0.001	mg/l	0.001	284968	210230	0.01	NO	NO	0.1	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284968	210230	0.0012	NO	NO	0.42	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284968	210230	7.00E-05	NO	NO	0.71	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Nickel (Dissolved)	0.0012	mg/l	0.0005	284968	210230	0.004	NO	NO	0.3	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284968	210230	0.05	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284968	210230	8.00E-05	YES	NO	1.38	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284968	210230	0.0047	NO	NO	0.11	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284968	210230	0.001	NO	NO	0.5	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Zinc (Dissolved)	0.0083	mg/l	0.0025	284968	210230	0.014	NO	NO	0.59	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Acenaphthene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Phenanthrene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Fluorene	< 1e-05	mg/l	1.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Naphthalene	< 1e-05	mg/l	1.00E-05	284968	210230	0.002	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	o-Xylene	< 0.001	mg/l	0.001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	m & p-Xylene	< 0.001	mg/l	0.001	284968	210230		NO	NO		POINT (284967.95 210230.01)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH32	244.73	4.28	2	14/03/2022	Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284968	210230	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH33	230.51	0.41	1		Alkalinity (Bicarbonate)	440	mg CaCO3/	10	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Sulphate	60	mg/l	1	284397	210700.9	400	NO	NO	0.15	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Chloride	17	mg/l	1	284397	210700.9	250	NO	NO	0.07	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Fluoride	0.15	mg/l	0.05	284397	210700.9	1	NO	NO	0.15	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Cyanide (Total)	< 0.05	mg/l	0.05	284397	210700.9	0.001	YES	NO	50	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Magnesium	18	mg/l	0.2	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Potassium	40	mg/l	0.5	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Sodium	97	mg/l	1.5	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Calcium	47	mg/l	2	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Ammonia (Free)	0.14	mg/l	0.05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Total Phenols	< 0.03	mg/l	0.03	284397	210700.9	0.0077	YES	NO	3.9	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Total Hardness as CaCO3	190	mg/l	15	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Nitrate	< 0.5	mg/l	0.5	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Dissolved Organic Carbon	100	mg/l	2	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Ethylbenzene	< 0.001	mg/l	0.001	284397	210700.9	0.02	NO	NO	0.05	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Toluene	< 0.001	mg/l	0.001	284397	210700.9	0.074	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Anthracene	< 1e-05	mg/l	1.00E-05	284397	210700.9	0.0001	NO	NO	0.1	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Pyrene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Fluoranthene	< 1e-05	mg/l	1.00E-05	284397	210700.9	6.30E-06	YES	NO	1.59	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Acenaphthylene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Chrysene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		PCB 118	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		PCB 153	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		PCB 138	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		PCB 180	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		PCB 52	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		PCB 90+101	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284397	210700.9	1.70E-07	YES	NO	58.82	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH33	230.51	0.41	1		PCB 28	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Benzene	< 0.001	mg/l	0.001	284397	210700.9	0.01	NO	NO	0.1	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Lead (Dissolved)	< 0.0005	mg/l	0.0005	284397	210700.9	0.0012	NO	NO	0.42	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284397	210700.9	7.00E-05	NO	NO	0.71	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Nickel (Dissolved)	0.002	mg/l	0.0005	284397	210700.9	0.004	NO	NO	0.5	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Arsenic (Dissolved)	0.00083	mg/l	0.0002	284397	210700.9	0.05	NO	NO	0.02	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284397	210700.9	8.00E-05	YES	NO	1.38	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Chromium (Dissolved)	0.00066	mg/l	0.0005	284397	210700.9	0.0047	NO	NO	0.14	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Copper (Dissolved)	0.0012	mg/l	0.0005	284397	210700.9	0.001	NO	YES	1.2	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Zinc (Dissolved)	0.021	mg/l	0.0025	284397	210700.9	0.014	NO	YES	1.5	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Acenaphthene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Phenanthrene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Fluorene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Naphthalene	< 1e-05	mg/l	1.00E-05	284397	210700.9	0.002	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		o-Xylene	< 0.001	mg/l	0.001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		m & p-Xylene	< 0.001	mg/l	0.001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Alkalinity (Bicarbonate)	380	mg CaCO3/	10	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Sulphate	66	mg/l	1	284397	210700.9	400	NO	NO	0.16	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Chloride	16	mg/l	1	284397	210700.9	250	NO	NO	0.06	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Fluoride	0.15	mg/l	0.05	284397	210700.9	1	NO	NO	0.15	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284397	210700.9	0.001	YES	NO	50	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Magnesium	18	mg/l	0.2	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Potassium	40	mg/l	0.5	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Sodium	81	mg/l	1.5	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Calcium	46	mg/l	2	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Ammonia (Free)	< 0.05	mg/l	0.05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH33	230.51	0.12	2	14/03/2022	Total Phenols	< 0.03	mg/l	0.03	284397	210700.9	0.0077	YES	NO	3.9	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Total Hardness as CaCO3	190	mg/l	15	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Nitrate	< 0.5	mg/l	0.5	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Dissolved Organic Carbon	92	mg/l	2	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Ethylbenzene	< 0.001	mg/l	0.001	284397	210700.9	0.02	NO	NO	0.05	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Toluene	< 0.001	mg/l	0.001	284397	210700.9	0.074	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Anthracene	< 1e-05	mg/l	1.00E-05	284397	210700.9	0.0001	NO	NO	0.1	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Pyrene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Fluoranthene	< 1e-05	mg/l	1.00E-05	284397	210700.9	6.30E-06	YES	NO	1.59	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Chrysene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	PCB 118	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	PCB 153	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	PCB 138	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	PCB 180	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	PCB 52	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	PCB 90+101	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284397	210700.9	1.70E-07	YES	NO	58.82	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	PCB 28	< 1e-06	mg/l	1.00E-06	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Benzene	< 0.001	mg/l	0.001	284397	210700.9	0.01	NO	NO	0.1	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284397	210700.9	0.0012	NO	NO	0.42	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284397	210700.9	7.00E-05	NO	NO	0.71	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Nickel (Dissolved)	0.0016	mg/l	0.0005	284397	210700.9	0.004	NO	NO	0.4	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Arsenic (Dissolved)	0.00043	mg/l	0.0002	284397	210700.9	0.05	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284397	210700.9	8.00E-05	YES	NO	1.38	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284397	210700.9	0.0047	NO	NO	0.11	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284397	210700.9	0.001	NO	NO	0.5	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Zinc (Dissolved)	0.012	mg/l	0.0025	284397	210700.9	0.014	NO	NO	0.86	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Acenaphthene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Phenanthrene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Fluorene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Naphthalene	< 1e-05	mg/l	1.00E-05	284397	210700.9	0.002	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	o-Xylene	< 0.001	mg/l	0.001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH33	230.51	0.12	2	14/03/2022	Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	m & p-Xylene	< 0.001	mg/l	0.001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284397	210700.9	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH34	232.64	5.09	1		Alkalinity (Bicarbonate)	320	mg CaCO3/	10	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Sulphate	49	mg/l	1	284419.6	210543.6	400	NO	NO	0.12	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Chloride	28	mg/l	1	284419.6	210543.6	250	NO	NO	0.11	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Fluoride	0.15	mg/l	0.05	284419.6	210543.6	1	NO	NO	0.15	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Cyanide (Total)	< 0.05	mg/l	0.05	284419.6	210543.6	0.001	YES	NO	50	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Magnesium	28	mg/l	0.2	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Potassium	8.3	mg/l	0.5	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Sodium	71	mg/l	1.5	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Calcium	11	mg/l	2	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Ammonia (Free)	0.5	mg/l	0.05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Total Phenols	< 0.03	mg/l	0.03	284419.6	210543.6	0.0077	YES	NO	3.9	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Total Hardness as CaCO3	140	mg/l	15	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Nitrate	< 0.5	mg/l	0.5	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Dissolved Organic Carbon	67	mg/l	2	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Ethylbenzene	< 0.001	mg/l	0.001	284419.6	210543.6	0.02	NO	NO	0.05	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Toluene	< 0.001	mg/l	0.001	284419.6	210543.6	0.074	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Anthracene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6	0.0001	NO	NO	0.1	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Pyrene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Fluoranthene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6	6.30E-06	YES	NO	1.59	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Acenaphthylene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Chrysene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		PCB 118	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		PCB 153	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		PCB 138	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		PCB 180	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		PCB 52	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		PCB 90+101	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH34	232.64	5.09	1		Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6	1.70E-07	YES	NO	58.82	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		PCB 28	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Benzene	< 0.001	mg/l	0.001	284419.6	210543.6	0.01	NO	NO	0.1	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Lead (Dissolved)	< 0.0005	mg/l	0.0005	284419.6	210543.6	0.0012	NO	NO	0.42	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284419.6	210543.6	7.00E-05	NO	NO	0.71	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Nickel (Dissolved)	0.0033	mg/l	0.0005	284419.6	210543.6	0.004	NO	NO	0.82	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284419.6	210543.6	0.05	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284419.6	210543.6	8.00E-05	YES	NO	1.38	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284419.6	210543.6	0.0047	NO	NO	0.11	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Copper (Dissolved)	0.00058	mg/l	0.0005	284419.6	210543.6	0.001	NO	NO	0.58	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Zinc (Dissolved)	0.012	mg/l	0.0025	284419.6	210543.6	0.014	NO	NO	0.86	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Acenaphthene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Phenanthrene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Fluorene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Naphthalene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6	0.002	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		o-Xylene	< 0.001	mg/l	0.001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		m & p-Xylene	< 0.001	mg/l	0.001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Alkalinity (Bicarbonate)	270	mg CaCO3/	10	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Sulphate	40	mg/l	1	284419.6	210543.6	400	NO	NO	0.1	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Chloride	28	mg/l	1	284419.6	210543.6	250	NO	NO	0.11	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Fluoride	0.16	mg/l	0.05	284419.6	210543.6	1	NO	NO	0.16	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284419.6	210543.6	0.001	YES	NO	50	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Magnesium	26	mg/l	0.2	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Potassium	7.8	mg/l	0.5	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH34	232.64	4.76	2	14/03/2022	Sodium	66	mg/l	1.5	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Calcium	10	mg/l	2	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Ammonia (Free)	0.089	mg/l	0.05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Total Phenols	< 0.03	mg/l	0.03	284419.6	210543.6	0.0077	YES	NO	3.9	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Total Hardness as CaCO3	130	mg/l	15	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Nitrate	< 0.5	mg/l	0.5	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Dissolved Organic Carbon	64	mg/l	2	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Ethylbenzene	< 0.001	mg/l	0.001	284419.6	210543.6	0.02	NO	NO	0.05	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Toluene	< 0.001	mg/l	0.001	284419.6	210543.6	0.074	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Anthracene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6	0.0001	NO	NO	0.1	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Pyrene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Fluoranthene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6	6.30E-06	YES	NO	1.59	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Chrysene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	PCB 118	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	PCB 153	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	PCB 138	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	PCB 180	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	PCB 52	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	PCB 90+101	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6	1.70E-07	YES	NO	58.82	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	PCB 28	< 1e-06	mg/l	1.00E-06	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Benzene	< 0.001	mg/l	0.001	284419.6	210543.6	0.01	NO	NO	0.1	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284419.6	210543.6	0.0012	NO	NO	0.42	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284419.6	210543.6	7.00E-05	NO	NO	0.71	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Nickel (Dissolved)	0.0018	mg/l	0.0005	284419.6	210543.6	0.004	NO	NO	0.45	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284419.6	210543.6	0.05	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284419.6	210543.6	8.00E-05	YES	NO	1.38	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284419.6	210543.6	0.0047	NO	NO	0.11	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Copper (Dissolved)	0.00055	mg/l	0.0005	284419.6	210543.6	0.001	NO	NO	0.55	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Zinc (Dissolved)	0.017	mg/l	0.0025	284419.6	210543.6	0.014	NO	YES	1.21	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Acenaphthene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Phenanthrene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Fluorene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Naphthalene	< 1e-05	mg/l	1.00E-05	284419.6	210543.6	0.002	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	o-Xylene	< 0.001	mg/l	0.001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH34	232.64	4.76	2	14/03/2022	Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	m & p-Xylene	< 0.001	mg/l	0.001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284419.6	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
S1-BH101	241.16	13.51	45	02/02/2023	Sulphate	130	mg/l	1	284925.4	210692	400	NO	NO	0.32	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284925.4	210692	0.001	YES	NO	50	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Calcium (Dissolved)	60	mg/l	2	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284925.4	210692	0.001	YES	NO	50	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Total Phenols	< 0.03	mg/l	0.03	284925.4	210692	0.0077	YES	NO	3.9	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Total Hardness as CaCO3	320	mg/l	15	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284925.4	210692	0.0001	NO	NO	1	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284925.4	210692	0.0034	YES	NO	5.88	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284925.4	210692	6.30E-06	YES	NO	15.87	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284925.4	210692	1.70E-07	YES	NO	588.24	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692	0.0012	NO	NO	0.42	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284925.4	210692	7.00E-05	NO	NO	0.71	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Nickel (Dissolved)	0.00091	mg/l	0.0005	284925.4	210692	0.004	NO	NO	0.23	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284925.4	210692	0.05	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Boron (Dissolved)	0.051	mg/l	0.01	284925.4	210692	2	NO	NO	0.03	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284925.4	210692	8.00E-05	YES	NO	1.38	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Chromium (Dissolved)	0.0026	mg/l	0.0005	284925.4	210692	0.0047	NO	NO	0.55	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692	0.001	NO	NO	0.5	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692	0.02	NO	NO	0.02	POINT (284925.38 210692.01)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH101	241.16	13.51	45	02/02/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284925.4	210692	0.014	NO	NO	0.18	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Selenium (Dissolved)	0.0027	mg/l	0.0005	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284925.4	210692	0.002	NO	NO	0.05	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Manganese (Dissolved)	0.35	mg/l	0.0005	284925.4	210692	0.123	NO	YES	2.85	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	02/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Sulphate	110	mg/l	1	284925.4	210692	400	NO	NO	0.28	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284925.4	210692	0.001	YES	NO	50	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Calcium (Dissolved)	59	mg/l	2	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284925.4	210692	0.001	YES	NO	50	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Total Phenols	< 0.03	mg/l	0.03	284925.4	210692	0.0077	YES	NO	3.9	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Total Hardness as CaCO3	320	mg/l	15	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284925.4	210692	0.0001	NO	NO	1	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284925.4	210692	0.0034	YES	NO	5.88	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284925.4	210692	6.30E-06	YES	NO	15.87	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284925.4	210692	1.70E-07	YES	NO	588.24	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692	0.0012	NO	NO	0.42	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284925.4	210692	7.00E-05	NO	NO	0.71	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Nickel (Dissolved)	0.00057	mg/l	0.0005	284925.4	210692	0.004	NO	NO	0.14	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284925.4	210692	0.05	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Boron (Dissolved)	0.045	mg/l	0.01	284925.4	210692	2	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284925.4	210692	8.00E-05	YES	NO	1.38	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Chromium (Dissolved)	0.0022	mg/l	0.0005	284925.4	210692	0.0047	NO	NO	0.47	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692	0.001	NO	NO	0.5	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692	0.02	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Zinc (Dissolved)	0.0026	mg/l	0.0025	284925.4	210692	0.014	NO	NO	0.19	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284925.4	210692	0.002	NO	NO	0.05	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Manganese (Dissolved)	0.25	mg/l	0.0005	284925.4	210692	0.123	NO	YES	2.03	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH102	230.73	8.72	28	24/01/2023	Sulphate	140	mg/l	1	284544.5	210695.4	400	NO	NO	0.35	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Cyanide (Total)	0.06	mg/l	0.05	284544.5	210695.4	0.001	YES	YES	60	POINT (284544.49 210695.4)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH102	230.73	8.72	28	24/01/2023	Calcium (Dissolved)	190	mg/l	2	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284544.5	210695.4	0.001	YES	NO	50	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Total Phenols	< 0.03	mg/l	0.03	284544.5	210695.4	0.0077	YES	NO	3.9	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Total Hardness as CaCO3	820	mg/l	15	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Dissolved Organic Carbon	2.1	mg/l	2	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Anthracene	< 0.0001	mg/l	0.0001	284544.5	210695.4	0.0001	NO	NO	1	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Pyrene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284544.5	210695.4	0.0034	YES	NO	5.88	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284544.5	210695.4	6.30E-06	YES	NO	15.87	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Chrysene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284544.5	210695.4	1.70E-07	YES	NO	588.24	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.0012	NO	NO	0.42	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284544.5	210695.4	7.00E-05	NO	NO	0.71	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Nickel (Dissolved)	0.0099	mg/l	0.0005	284544.5	210695.4	0.004	NO	YES	2.48	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Arsenic (Dissolved)	0.0012	mg/l	0.0002	284544.5	210695.4	0.05	NO	NO	0.02	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Boron (Dissolved)	0.073	mg/l	0.01	284544.5	210695.4	2	NO	NO	0.04	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284544.5	210695.4	8.00E-05	YES	NO	1.38	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.0047	NO	NO	0.11	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Copper (Dissolved)	0.00074	mg/l	0.0005	284544.5	210695.4	0.001	NO	NO	0.74	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.02	NO	NO	0.02	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284544.5	210695.4	0.014	NO	NO	0.18	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Fluorene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Naphthalene	< 0.0001	mg/l	0.0001	284544.5	210695.4	0.002	NO	NO	0.05	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Manganese (Dissolved)	0.069	mg/l	0.0005	284544.5	210695.4	0.123	NO	NO	0.56	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	24/01/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Sulphate	130	mg/l	1	284544.5	210695.4	400	NO	NO	0.32	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284544.5	210695.4	0.001	YES	NO	50	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Calcium (Dissolved)	57	mg/l	2	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284544.5	210695.4	0.001	YES	NO	50	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Total Phenols	< 0.03	mg/l	0.03	284544.5	210695.4	0.0077	YES	NO	3.9	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Total Hardness as CaCO3	210	mg/l	15	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284544.5	210695.4	0.0001	NO	NO	1	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284544.5	210695.4	0.0034	YES	NO	5.88	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH102	230.73	8.85	29	01/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284544.5	210695.4	6.30E-06	YES	NO	15.87	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284544.5	210695.4	1.70E-07	YES	NO	588.24	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.0012	NO	NO	0.42	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284544.5	210695.4	7.00E-05	NO	NO	0.71	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Nickel (Dissolved)	0.0096	mg/l	0.0005	284544.5	210695.4	0.004	NO	YES	2.4	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Arsenic (Dissolved)	0.00092	mg/l	0.0002	284544.5	210695.4	0.05	NO	NO	0.02	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Boron (Dissolved)	0.046	mg/l	0.01	284544.5	210695.4	2	NO	NO	0.02	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284544.5	210695.4	8.00E-05	YES	NO	1.38	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Chromium (Dissolved)	0.0024	mg/l	0.0005	284544.5	210695.4	0.0047	NO	NO	0.51	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.001	NO	NO	0.5	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.02	NO	NO	0.02	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Zinc (Dissolved)	0.0046	mg/l	0.0025	284544.5	210695.4	0.014	NO	NO	0.33	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Selenium (Dissolved)	0.0026	mg/l	0.0005	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284544.5	210695.4	0.002	NO	NO	0.05	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Manganese (Dissolved)	0.37	mg/l	0.0005	284544.5	210695.4	0.123	NO	YES	3.01	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Sulphate	76	mg/l	1	284544.5	210695.4	400	NO	NO	0.19	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284544.5	210695.4	0.001	YES	NO	50	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Calcium (Dissolved)	35	mg/l	2	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284544.5	210695.4	0.001	YES	NO	50	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Total Phenols	< 0.03	mg/l	0.03	284544.5	210695.4	0.0077	YES	NO	3.9	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Total Hardness as CaCO3	130	mg/l	15	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284544.5	210695.4	0.0001	NO	NO	1	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284544.5	210695.4	0.0034	YES	NO	5.88	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284544.5	210695.4	6.30E-06	YES	NO	15.87	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284544.5	210695.4	1.70E-07	YES	NO	588.24	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.0012	NO	NO	0.42	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284544.5	210695.4	7.00E-05	NO	NO	0.71	POINT (284544.49 210695.4)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH102	230.73	8.75	30	13/02/2023	Nickel (Dissolved)	0.0039	mg/l	0.0005	284544.5	210695.4	0.004	NO	NO	0.98	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Arsenic (Dissolved)	0.0015	mg/l	0.0002	284544.5	210695.4	0.05	NO	NO	0.03	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Boron (Dissolved)	0.66	mg/l	0.01	284544.5	210695.4	2	NO	NO	0.33	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284544.5	210695.4	8.00E-05	YES	NO	1.38	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Chromium (Dissolved)	0.0038	mg/l	0.0005	284544.5	210695.4	0.0047	NO	NO	0.81	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.001	NO	NO	0.5	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4	0.02	NO	NO	0.02	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284544.5	210695.4	0.014	NO	NO	0.18	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284544.5	210695.4	0.002	NO	NO	0.05	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Manganese (Dissolved)	0.22	mg/l	0.0005	284544.5	210695.4	0.123	NO	YES	1.79	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH103	234.33	5.54	36	25/01/2023	Sulphate	250	mg/l	1	284603.2	210646.5	400	NO	NO	0.62	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284603.2	210646.5	0.001	YES	NO	50	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Calcium (Dissolved)	340	mg/l	2	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284603.2	210646.5	0.001	YES	NO	50	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Total Phenols	< 0.03	mg/l	0.03	284603.2	210646.5	0.0077	YES	NO	3.9	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Total Hardness as CaCO3	1500	mg/l	15	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Anthracene	< 0.0001	mg/l	0.0001	284603.2	210646.5	0.0001	NO	NO	1	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Pyrene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284603.2	210646.5	0.0034	YES	NO	5.88	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284603.2	210646.5	6.30E-06	YES	NO	15.87	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Chrysene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284603.2	210646.5	1.70E-07	YES	NO	588.24	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.0012	NO	NO	0.42	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284603.2	210646.5	7.00E-05	NO	NO	0.71	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Nickel (Dissolved)	0.0024	mg/l	0.0005	284603.2	210646.5	0.004	NO	NO	0.6	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Arsenic (Dissolved)	0.00039	mg/l	0.0002	284603.2	210646.5	0.05	NO	NO	0.01	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Boron (Dissolved)	0.041	mg/l	0.01	284603.2	210646.5	2	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284603.2	210646.5	8.00E-05	YES	NO	1.38	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.0047	NO	NO	0.11	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.001	NO	NO	0.5	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.02	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Zinc (Dissolved)	0.0048	mg/l	0.0025	284603.2	210646.5	0.014	NO	NO	0.34	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH103	234.33	5.54	36	25/01/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Fluorene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Naphthalene	< 0.0001	mg/l	0.0001	284603.2	210646.5	0.002	NO	NO	0.05	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Manganese (Dissolved)	0.92	mg/l	0.0005	284603.2	210646.5	0.123	NO	YES	7.48	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	25/01/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Sulphate	240	mg/l	1	284603.2	210646.5	400	NO	NO	0.6	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284603.2	210646.5	0.001	YES	NO	50	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Calcium (Dissolved)	78	mg/l	2	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284603.2	210646.5	0.001	YES	NO	50	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Total Phenols	< 0.03	mg/l	0.03	284603.2	210646.5	0.0077	YES	NO	3.9	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Total Hardness as CaCO3	350	mg/l	15	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284603.2	210646.5	0.0001	NO	NO	1	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284603.2	210646.5	0.0034	YES	NO	5.88	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284603.2	210646.5	6.30E-06	YES	NO	15.87	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284603.2	210646.5	1.70E-07	YES	NO	588.24	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.0012	NO	NO	0.42	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284603.2	210646.5	7.00E-05	NO	NO	0.71	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Nickel (Dissolved)	0.0023	mg/l	0.0005	284603.2	210646.5	0.004	NO	NO	0.57	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284603.2	210646.5	0.05	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Boron (Dissolved)	0.047	mg/l	0.01	284603.2	210646.5	2	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284603.2	210646.5	8.00E-05	YES	NO	1.38	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Chromium (Dissolved)	0.0015	mg/l	0.0005	284603.2	210646.5	0.0047	NO	NO	0.32	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.001	NO	NO	0.5	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.02	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284603.2	210646.5	0.014	NO	NO	0.18	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Selenium (Dissolved)	0.0029	mg/l	0.0005	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284603.2	210646.5	0.002	NO	NO	0.05	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Manganese (Dissolved)	0.83	mg/l	0.0005	284603.2	210646.5	0.123	NO	YES	6.75	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Sulphate	200	mg/l	1	284603.2	210646.5	400	NO	NO	0.5	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284603.2	210646.5	0.001	YES	NO	50	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Calcium (Dissolved)	78	mg/l	2	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284603.2	210646.5	0.001	YES	NO	50	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Total Phenols	< 0.03	mg/l	0.03	284603.2	210646.5	0.0077	YES	NO	3.9	POINT (284603.15 210646.48)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH103	234.33	5.52	38	14/02/2023	Total Hardness as CaCO3	350	mg/l	15	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284603.2	210646.5	0.0001	NO	NO	1	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284603.2	210646.5	0.0034	YES	NO	5.88	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284603.2	210646.5	6.30E-06	YES	NO	15.87	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284603.2	210646.5	1.70E-07	YES	NO	588.24	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.0012	NO	NO	0.42	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284603.2	210646.5	7.00E-05	NO	NO	0.71	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Nickel (Dissolved)	0.0025	mg/l	0.0005	284603.2	210646.5	0.004	NO	NO	0.62	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284603.2	210646.5	0.05	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Boron (Dissolved)	0.046	mg/l	0.01	284603.2	210646.5	2	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284603.2	210646.5	8.00E-05	YES	NO	1.38	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Chromium (Dissolved)	0.0012	mg/l	0.0005	284603.2	210646.5	0.0047	NO	NO	0.26	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.001	NO	NO	0.5	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5	0.02	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284603.2	210646.5	0.014	NO	NO	0.18	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284603.2	210646.5	0.002	NO	NO	0.05	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Manganese (Dissolved)	0.39	mg/l	0.0005	284603.2	210646.5	0.123	NO	YES	3.17	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH105	236.49	15.36	37	01/02/2023	Sulphate	150	mg/l	1	284719	210649.9	400	NO	NO	0.38	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284719	210649.9	0.001	YES	NO	50	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Calcium (Dissolved)	88	mg/l	2	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284719	210649.9	0.001	YES	NO	50	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Total Phenols	< 0.03	mg/l	0.03	284719	210649.9	0.0077	YES	NO	3.9	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Total Hardness as CaCO3	370	mg/l	15	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284719	210649.9	0.0001	NO	NO	1	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284719	210649.9	0.0034	YES	NO	5.88	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284719	210649.9	6.30E-06	YES	NO	15.87	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH105	236.49	15.36	37	01/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284719	210649.9	1.70E-07	YES	NO	588.24	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.0012	NO	NO	0.42	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284719	210649.9	7.00E-05	NO	NO	0.71	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Nickel (Dissolved)	0.0061	mg/l	0.0005	284719	210649.9	0.004	NO	YES	1.52	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Arsenic (Dissolved)	0.00033	mg/l	0.0002	284719	210649.9	0.05	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Boron (Dissolved)	0.038	mg/l	0.01	284719	210649.9	2	NO	NO	0.02	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284719	210649.9	8.00E-05	YES	NO	1.38	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Chromium (Dissolved)	0.0017	mg/l	0.0005	284719	210649.9	0.0047	NO	NO	0.36	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.001	NO	NO	0.5	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.02	NO	NO	0.02	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284719	210649.9	0.014	NO	NO	0.18	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Selenium (Dissolved)	0.0024	mg/l	0.0005	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284719	210649.9	0.002	NO	NO	0.05	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Manganese (Dissolved)	2	mg/l	0.0005	284719	210649.9	0.123	NO	YES	16.26	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	01/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Sulphate	100	mg/l	1	284719	210649.9	400	NO	NO	0.25	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284719	210649.9	0.001	YES	NO	50	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Calcium (Dissolved)	82	mg/l	2	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284719	210649.9	0.001	YES	NO	50	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Total Phenols	< 0.03	mg/l	0.03	284719	210649.9	0.0077	YES	NO	3.9	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Total Hardness as CaCO3	330	mg/l	15	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284719	210649.9	0.0001	NO	NO	1	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284719	210649.9	0.0034	YES	NO	5.88	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284719	210649.9	6.30E-06	YES	NO	15.87	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284719	210649.9	1.70E-07	YES	NO	588.24	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.0012	NO	NO	0.42	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284719	210649.9	7.00E-05	NO	NO	0.71	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Nickel (Dissolved)	0.002	mg/l	0.0005	284719	210649.9	0.004	NO	NO	0.5	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284719	210649.9	0.05	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Boron (Dissolved)	0.032	mg/l	0.01	284719	210649.9	2	NO	NO	0.02	POINT (284718.99 210649.88)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH105	236.49	15.36	38	14/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284719	210649.9	8.00E-05	YES	NO	1.38	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Chromium (Dissolved)	0.0014	mg/l	0.0005	284719	210649.9	0.0047	NO	NO	0.3	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.001	NO	NO	0.5	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.02	NO	NO	0.02	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284719	210649.9	0.014	NO	NO	0.18	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284719	210649.9	0.002	NO	NO	0.05	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Manganese (Dissolved)	0.9	mg/l	0.0005	284719	210649.9	0.123	NO	YES	7.32	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Sulphate	130	mg/l	1	284719	210649.9	400	NO	NO	0.32	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284719	210649.9	0.001	YES	NO	50	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Calcium (Dissolved)	77	mg/l	2	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284719	210649.9	0.001	YES	NO	50	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Total Phenols	< 0.03	mg/l	0.03	284719	210649.9	0.0077	YES	NO	3.9	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Total Hardness as CaCO3	330	mg/l	15	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Anthracene	< 0.0001	mg/l	0.0001	284719	210649.9	0.0001	NO	NO	1	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Pyrene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284719	210649.9	0.0034	YES	NO	5.88	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284719	210649.9	6.30E-06	YES	NO	15.87	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Chrysene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284719	210649.9	1.70E-07	YES	NO	588.24	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.0012	NO	NO	0.42	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284719	210649.9	7.00E-05	NO	NO	0.71	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Nickel (Dissolved)	0.0038	mg/l	0.0005	284719	210649.9	0.004	NO	NO	0.95	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Arsenic (Dissolved)	0.0027	mg/l	0.0002	284719	210649.9	0.05	NO	NO	0.05	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Boron (Dissolved)	0.036	mg/l	0.01	284719	210649.9	2	NO	NO	0.02	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284719	210649.9	8.00E-05	YES	NO	1.38	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.0047	NO	NO	0.11	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.001	NO	NO	0.5	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9	0.02	NO	NO	0.02	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Zinc (Dissolved)	0.013	mg/l	0.0025	284719	210649.9	0.014	NO	NO	0.93	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Selenium (Dissolved)	0.0016	mg/l	0.0005	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Fluorene	< 0.0001	mg/l	0.0001	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Naphthalene	< 0.0001	mg/l	0.0001	284719	210649.9	0.002	NO	NO	0.05	POINT (284718.99 210649.88)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH105	236.49	6.28	GW1	16/01/2023	Manganese (Dissolved)	1.6	mg/l	0.0005	284719	210649.9	0.123	NO	YES	13.01	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH112	237.94	15	26	02/02/2023	Sulphate	170	mg/l	1	284882.1	210600	400	NO	NO	0.42	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284882.1	210600	0.001	YES	NO	50	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Calcium (Dissolved)	69	mg/l	2	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284882.1	210600	0.001	YES	NO	50	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Total Phenols	< 0.03	mg/l	0.03	284882.1	210600	0.0077	YES	NO	3.9	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Total Hardness as CaCO3	280	mg/l	15	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284882.1	210600	0.0001	NO	NO	1	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284882.1	210600	0.0034	YES	NO	5.88	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284882.1	210600	6.30E-06	YES	NO	15.87	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284882.1	210600	1.70E-07	YES	NO	588.24	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600	0.0012	NO	NO	0.42	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284882.1	210600	7.00E-05	NO	NO	0.71	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Nickel (Dissolved)	0.0026	mg/l	0.0005	284882.1	210600	0.004	NO	NO	0.65	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284882.1	210600	0.05	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Boron (Dissolved)	0.054	mg/l	0.01	284882.1	210600	2	NO	NO	0.03	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284882.1	210600	8.00E-05	YES	NO	1.38	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Chromium (Dissolved)	0.0012	mg/l	0.0005	284882.1	210600	0.0047	NO	NO	0.26	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600	0.001	NO	NO	0.5	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600	0.02	NO	NO	0.02	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Zinc (Dissolved)	0.012	mg/l	0.0025	284882.1	210600	0.014	NO	NO	0.86	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Selenium (Dissolved)	0.0031	mg/l	0.0005	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284882.1	210600	0.002	NO	NO	0.05	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Manganese (Dissolved)	1.6	mg/l	0.0005	284882.1	210600	0.123	NO	YES	13.01	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	02/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Sulphate	180	mg/l	1	284882.1	210600	400	NO	NO	0.45	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284882.1	210600	0.001	YES	NO	50	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Calcium (Dissolved)	73	mg/l	2	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284882.1	210600	0.001	YES	NO	50	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Total Phenols	< 0.03	mg/l	0.03	284882.1	210600	0.0077	YES	NO	3.9	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Total Hardness as CaCO3	290	mg/l	15	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284882.1	210600	0.0001	NO	NO	1	POINT (284882.07 210599.97)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH112	237.94	15.17	27	14/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284882.1	210600	0.0034	YES	NO	5.88	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284882.1	210600	6.30E-06	YES	NO	15.87	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284882.1	210600	1.70E-07	YES	NO	588.24	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600	0.0012	NO	NO	0.42	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284882.1	210600	7.00E-05	NO	NO	0.71	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Nickel (Dissolved)	0.0015	mg/l	0.0005	284882.1	210600	0.004	NO	NO	0.38	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284882.1	210600	0.05	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Boron (Dissolved)	0.045	mg/l	0.01	284882.1	210600	2	NO	NO	0.02	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Cadmium (Dissolved)	0.00016	mg/l	0.00011	284882.1	210600	8.00E-05	YES	YES	2	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600	0.0047	NO	NO	0.11	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600	0.001	NO	NO	0.5	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600	0.02	NO	NO	0.02	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Zinc (Dissolved)	0.0027	mg/l	0.0025	284882.1	210600	0.014	NO	NO	0.19	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284882.1	210600	0.002	NO	NO	0.05	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Manganese (Dissolved)	1.3	mg/l	0.0005	284882.1	210600	0.123	NO	YES	10.57	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH113	236.95	5.54	31	01/02/2023	Sulphate	290	mg/l	1	284799.6	210645.6	400	NO	NO	0.72	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284799.6	210645.6	0.001	YES	NO	50	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Calcium (Dissolved)	120	mg/l	2	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284799.6	210645.6	0.001	YES	NO	50	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Total Phenols	< 0.03	mg/l	0.03	284799.6	210645.6	0.0077	YES	NO	3.9	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Total Hardness as CaCO3	490	mg/l	15	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284799.6	210645.6	0.0001	NO	NO	1	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284799.6	210645.6	0.0034	YES	NO	5.88	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284799.6	210645.6	6.30E-06	YES	NO	15.87	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284799.6	210645.6	1.70E-07	YES	NO	588.24	POINT (284799.55 210645.61)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH113	236.95	5.54	31	01/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284799.6	210645.6	0.0012	NO	NO	0.42	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284799.6	210645.6	7.00E-05	NO	NO	0.71	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Nickel (Dissolved)	0.0094	mg/l	0.0005	284799.6	210645.6	0.004	NO	YES	2.35	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284799.6	210645.6	0.05	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Boron (Dissolved)	0.062	mg/l	0.01	284799.6	210645.6	2	NO	NO	0.03	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284799.6	210645.6	8.00E-05	YES	NO	1.38	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Chromium (Dissolved)	0.002	mg/l	0.0005	284799.6	210645.6	0.0047	NO	NO	0.43	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284799.6	210645.6	0.001	NO	NO	0.5	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284799.6	210645.6	0.02	NO	NO	0.02	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Zinc (Dissolved)	0.0043	mg/l	0.0025	284799.6	210645.6	0.014	NO	NO	0.31	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Selenium (Dissolved)	0.0017	mg/l	0.0005	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284799.6	210645.6	0.002	NO	NO	0.05	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Manganese (Dissolved)	1.5	mg/l	0.0005	284799.6	210645.6	0.123	NO	YES	12.2	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	01/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Sulphate	180	mg/l	1	284799.6	210645.6	400	NO	NO	0.45	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284799.6	210645.6	0.001	YES	NO	50	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Calcium (Dissolved)	75	mg/l	2	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284799.6	210645.6	0.001	YES	NO	50	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Total Phenols	< 0.03	mg/l	0.03	284799.6	210645.6	0.0077	YES	NO	3.9	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Total Hardness as CaCO3	320	mg/l	15	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Anthracene	< 0.0001	mg/l	0.0001	284799.6	210645.6	0.0001	NO	NO	1	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Pyrene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284799.6	210645.6	0.0034	YES	NO	5.88	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284799.6	210645.6	6.30E-06	YES	NO	15.87	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Chrysene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284799.6	210645.6	1.70E-07	YES	NO	588.24	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284799.6	210645.6	0.0012	NO	NO	0.42	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284799.6	210645.6	7.00E-05	NO	NO	0.71	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Nickel (Dissolved)	0.0052	mg/l	0.0005	284799.6	210645.6	0.004	NO	YES	1.3	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Arsenic (Dissolved)	0.0011	mg/l	0.0002	284799.6	210645.6	0.05	NO	NO	0.02	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Boron (Dissolved)	0.062	mg/l	0.01	284799.6	210645.6	2	NO	NO	0.03	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284799.6	210645.6	8.00E-05	YES	NO	1.38	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284799.6	210645.6	0.0047	NO	NO	0.11	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284799.6	210645.6	0.001	NO	NO	0.5	POINT (284799.55 210645.61)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH113	236.95	3.86	GW1	16/01/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284799.6	210645.6	0.02	NO	NO	0.02	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Zinc (Dissolved)	0.0081	mg/l	0.0025	284799.6	210645.6	0.014	NO	NO	0.58	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Selenium (Dissolved)	0.0018	mg/l	0.0005	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Fluorene	< 0.0001	mg/l	0.0001	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Naphthalene	< 0.0001	mg/l	0.0001	284799.6	210645.6	0.002	NO	NO	0.05	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Manganese (Dissolved)	0.84	mg/l	0.0005	284799.6	210645.6	0.123	NO	YES	6.83	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH121	230.88	3.3	19	24/01/2023	Sulphate	17	mg/l	1	284475.7	210703	400	NO	NO	0.04	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Cyanide (Total)	0.06	mg/l	0.05	284475.7	210703	0.001	YES	YES	60	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Calcium (Dissolved)	190	mg/l	2	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284475.7	210703	0.001	YES	NO	50	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Total Phenols	< 0.03	mg/l	0.03	284475.7	210703	0.0077	YES	NO	3.9	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Total Hardness as CaCO3	830	mg/l	15	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Dissolved Organic Carbon	2	mg/l	2	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Anthracene	< 0.0001	mg/l	0.0001	284475.7	210703	0.0001	NO	NO	1	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Pyrene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284475.7	210703	0.0034	YES	NO	5.88	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284475.7	210703	6.30E-06	YES	NO	15.87	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Chrysene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284475.7	210703	1.70E-07	YES	NO	588.24	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	0.0012	NO	NO	0.42	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284475.7	210703	7.00E-05	NO	NO	0.71	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Nickel (Dissolved)	0.0026	mg/l	0.0005	284475.7	210703	0.004	NO	NO	0.65	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Arsenic (Dissolved)	0.00057	mg/l	0.0002	284475.7	210703	0.05	NO	NO	0.01	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Boron (Dissolved)	0.036	mg/l	0.01	284475.7	210703	2	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284475.7	210703	8.00E-05	YES	NO	1.38	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	0.0047	NO	NO	0.11	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	0.001	NO	NO	0.5	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	0.02	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284475.7	210703	0.014	NO	NO	0.18	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Fluorene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Naphthalene	< 0.0001	mg/l	0.0001	284475.7	210703	0.002	NO	NO	0.05	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Manganese (Dissolved)	0.2	mg/l	0.0005	284475.7	210703	0.123	NO	YES	1.63	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	24/01/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Sulphate	34	mg/l	1	284475.7	210703	400	NO	NO	0.08	POINT (284475.72 210703)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH121	230.88	3.32	20	01/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284475.7	210703	0.001	YES	NO	50	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Calcium (Dissolved)	62	mg/l	2	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284475.7	210703	0.001	YES	NO	50	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Total Phenols	< 0.03	mg/l	0.03	284475.7	210703	0.0077	YES	NO	3.9	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Total Hardness as CaCO3	250	mg/l	15	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284475.7	210703	0.0001	NO	NO	1	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284475.7	210703	0.0034	YES	NO	5.88	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284475.7	210703	6.30E-06	YES	NO	15.87	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284475.7	210703	1.70E-07	YES	NO	588.24	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	0.0012	NO	NO	0.42	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284475.7	210703	7.00E-05	NO	NO	0.71	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Nickel (Dissolved)	0.0028	mg/l	0.0005	284475.7	210703	0.004	NO	NO	0.7	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284475.7	210703	0.05	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Boron (Dissolved)	0.03	mg/l	0.01	284475.7	210703	2	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284475.7	210703	8.00E-05	YES	NO	1.38	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Chromium (Dissolved)	0.0019	mg/l	0.0005	284475.7	210703	0.0047	NO	NO	0.4	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	0.001	NO	NO	0.5	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	0.02	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Zinc (Dissolved)	0.0037	mg/l	0.0025	284475.7	210703	0.014	NO	NO	0.26	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Selenium (Dissolved)	0.0018	mg/l	0.0005	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284475.7	210703	0.002	NO	NO	0.05	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Manganese (Dissolved)	0.72	mg/l	0.0005	284475.7	210703	0.123	NO	YES	5.85	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Sulphate	60	mg/l	1	284475.7	210703	400	NO	NO	0.15	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284475.7	210703	0.001	YES	NO	50	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Calcium (Dissolved)	69	mg/l	2	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284475.7	210703	0.001	YES	NO	50	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Total Phenols	< 0.03	mg/l	0.03	284475.7	210703	0.0077	YES	NO	3.9	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Total Hardness as CaCO3	270	mg/l	15	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284475.7	210703	0.0001	NO	NO	1	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284475.7	210703	0.0034	YES	NO	5.88	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH121	230.88	3.28	21	13/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284475.7	210703	6.30E-06	YES	NO	15.87	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284475.7	210703	1.70E-07	YES	NO	588.24	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	0.0012	NO	NO	0.42	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284475.7	210703	7.00E-05	NO	NO	0.71	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Nickel (Dissolved)	0.001	mg/l	0.0005	284475.7	210703	0.004	NO	NO	0.25	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284475.7	210703	0.05	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Boron (Dissolved)	0.5	mg/l	0.01	284475.7	210703	2	NO	NO	0.25	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284475.7	210703	8.00E-05	YES	NO	1.38	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Chromium (Dissolved)	0.0031	mg/l	0.0005	284475.7	210703	0.0047	NO	NO	0.66	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	0.001	NO	NO	0.5	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703	0.02	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Zinc (Dissolved)	0.0031	mg/l	0.0025	284475.7	210703	0.014	NO	NO	0.22	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284475.7	210703	0.002	NO	NO	0.05	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Manganese (Dissolved)	0.75	mg/l	0.0005	284475.7	210703	0.123	NO	YES	6.1	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH122	230.82	1.76	22	24/01/2023	Sulphate	250	mg/l	1	284632.9	210701.3	400	NO	NO	0.62	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Cyanide (Total)	0.06	mg/l	0.05	284632.9	210701.3	0.001	YES	YES	60	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Calcium (Dissolved)	320	mg/l	2	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284632.9	210701.3	0.001	YES	NO	50	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Total Phenols	< 0.03	mg/l	0.03	284632.9	210701.3	0.0077	YES	NO	3.9	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Total Hardness as CaCO3	1600	mg/l	15	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Anthracene	< 0.0001	mg/l	0.0001	284632.9	210701.3	0.0001	NO	NO	1	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Pyrene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284632.9	210701.3	0.0034	YES	NO	5.88	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284632.9	210701.3	6.30E-06	YES	NO	15.87	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Chrysene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284632.9	210701.3	1.70E-07	YES	NO	588.24	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.0012	NO	NO	0.42	POINT (284632.9 210701.3)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH122	230.82	1.76	22	24/01/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284632.9	210701.3	7.00E-05	NO	NO	0.71	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Nickel (Dissolved)	0.00072	mg/l	0.0005	284632.9	210701.3	0.004	NO	NO	0.18	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Arsenic (Dissolved)	0.00024	mg/l	0.0002	284632.9	210701.3	0.05	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Boron (Dissolved)	0.051	mg/l	0.01	284632.9	210701.3	2	NO	NO	0.03	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284632.9	210701.3	8.00E-05	YES	NO	1.38	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.0047	NO	NO	0.11	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.001	NO	NO	0.5	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.02	NO	NO	0.02	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284632.9	210701.3	0.014	NO	NO	0.18	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Fluorene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Naphthalene	< 0.0001	mg/l	0.0001	284632.9	210701.3	0.002	NO	NO	0.05	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Manganese (Dissolved)	0.078	mg/l	0.0005	284632.9	210701.3	0.123	NO	NO	0.63	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	24/01/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Sulphate	270	mg/l	1	284632.9	210701.3	400	NO	NO	0.68	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284632.9	210701.3	0.001	YES	NO	50	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Calcium (Dissolved)	98	mg/l	2	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284632.9	210701.3	0.001	YES	NO	50	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Total Phenols	< 0.03	mg/l	0.03	284632.9	210701.3	0.0077	YES	NO	3.9	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Total Hardness as CaCO3	440	mg/l	15	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284632.9	210701.3	0.0001	NO	NO	1	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284632.9	210701.3	0.0034	YES	NO	5.88	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284632.9	210701.3	6.30E-06	YES	NO	15.87	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284632.9	210701.3	1.70E-07	YES	NO	588.24	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.0012	NO	NO	0.42	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284632.9	210701.3	7.00E-05	NO	NO	0.71	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Nickel (Dissolved)	0.001	mg/l	0.0005	284632.9	210701.3	0.004	NO	NO	0.25	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284632.9	210701.3	0.05	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Boron (Dissolved)	0.042	mg/l	0.01	284632.9	210701.3	2	NO	NO	0.02	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284632.9	210701.3	8.00E-05	YES	NO	1.38	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Chromium (Dissolved)	0.0019	mg/l	0.0005	284632.9	210701.3	0.0047	NO	NO	0.4	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.001	NO	NO	0.5	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.02	NO	NO	0.02	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284632.9	210701.3	0.014	NO	NO	0.18	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Selenium (Dissolved)	0.0023	mg/l	0.0005	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH122	230.82	1.76	23	01/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284632.9	210701.3	0.002	NO	NO	0.05	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Manganese (Dissolved)	0.56	mg/l	0.0005	284632.9	210701.3	0.123	NO	YES	4.55	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Sulphate	260	mg/l	1	284632.9	210701.3	400	NO	NO	0.65	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284632.9	210701.3	0.001	YES	NO	50	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Calcium (Dissolved)	110	mg/l	2	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284632.9	210701.3	0.001	YES	NO	50	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Total Phenols	< 0.03	mg/l	0.03	284632.9	210701.3	0.0077	YES	NO	3.9	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Total Hardness as CaCO3	440	mg/l	15	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284632.9	210701.3	0.0001	NO	NO	1	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284632.9	210701.3	0.0034	YES	NO	5.88	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284632.9	210701.3	6.30E-06	YES	NO	15.87	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284632.9	210701.3	1.70E-07	YES	NO	588.24	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.0012	NO	NO	0.42	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284632.9	210701.3	7.00E-05	NO	NO	0.71	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.004	NO	NO	0.12	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284632.9	210701.3	0.05	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Boron (Dissolved)	0.72	mg/l	0.01	284632.9	210701.3	2	NO	NO	0.36	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284632.9	210701.3	8.00E-05	YES	NO	1.38	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Chromium (Dissolved)	0.0028	mg/l	0.0005	284632.9	210701.3	0.0047	NO	NO	0.6	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.001	NO	NO	0.5	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3	0.02	NO	NO	0.02	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Zinc (Dissolved)	0.0071	mg/l	0.0025	284632.9	210701.3	0.014	NO	NO	0.51	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284632.9	210701.3	0.002	NO	NO	0.05	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Manganese (Dissolved)	0.82	mg/l	0.0005	284632.9	210701.3	0.123	NO	YES	6.67	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
SOP003.16	238.78	11	1	29/11/2022	Sulphate	200	mg/l	1	284914.1	210570.6	400	NO	NO	0.5	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Cyanide (Total)	< 0.05	mg/l	0.05	284914.1	210570.6	0.001	YES	NO	50	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Calcium (Dissolved)	72	mg/l	2	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Cyanide (Free)	< 0.05	mg/l	0.05	284914.1	210570.6	0.001	YES	NO	50	POINT (284914.08 210570.58)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SOP003.16	238.78	11	1	29/11/2022	Total Phenols	< 0.03	mg/l	0.03	284914.1	210570.6	0.0077	YES	NO	3.9	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Total Hardness as CaCO3	290	mg/l	15	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Dissolved Organic Carbon	< 2.0	mg/l	2	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6	0.0001	NO	NO	1	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284914.1	210570.6	0.0034	YES	NO	5.88	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6	6.30E-06	YES	NO	15.87	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Acenaphthylene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Chrysene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6	1.70E-07	YES	NO	588.24	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.0012	NO	NO	0.42	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284914.1	210570.6	7.00E-05	NO	NO	0.71	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Nickel (Dissolved)	0.0049	mg/l	0.0005	284914.1	210570.6	0.004	NO	YES	1.23	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284914.1	210570.6	0.05	NO	NO	0	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Boron (Dissolved)	0.52	mg/l	0.01	284914.1	210570.6	2	NO	NO	0.26	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284914.1	210570.6	8.00E-05	YES	NO	1.38	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.0047	NO	NO	0.11	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.001	NO	NO	0.5	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.02	NO	NO	0.02	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Zinc (Dissolved)	0.017	mg/l	0.0025	284914.1	210570.6	0.014	NO	YES	1.21	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Selenium (Dissolved)	0.00082	mg/l	0.0005	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Acenaphthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Phenanthrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Fluorene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Naphthalene	0.00015	mg/l	0.0001	284914.1	210570.6	0.002	NO	NO	0.08	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Manganese (Dissolved)	1.4	mg/l	0.0005	284914.1	210570.6	0.123	NO	YES	11.38	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	29/11/2022	Total Of 16 PAH's	< 0.002	mg/l	0.002	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Sulphate	160	mg/l	1	284914.1	210570.6	400	NO	NO	0.4	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284914.1	210570.6	0.001	YES	NO	50	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Calcium (Dissolved)	290	mg/l	2	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284914.1	210570.6	0.001	YES	NO	50	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Total Phenols	< 0.03	mg/l	0.03	284914.1	210570.6	0.0077	YES	NO	3.9	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Total Hardness as CaCO3	1100	mg/l	15	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6	0.0001	NO	NO	1	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284914.1	210570.6	0.0034	YES	NO	5.88	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6	6.30E-06	YES	NO	15.87	POINT (284914.08 210570.58)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SOP003.16	238.78	13.6	2	25/01/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Chrysene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6	1.70E-07	YES	NO	588.24	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.0012	NO	NO	0.42	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284914.1	210570.6	7.00E-05	NO	NO	0.71	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Nickel (Dissolved)	0.0021	mg/l	0.0005	284914.1	210570.6	0.004	NO	NO	0.52	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Arsenic (Dissolved)	0.00051	mg/l	0.0002	284914.1	210570.6	0.05	NO	NO	0.01	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Boron (Dissolved)	0.053	mg/l	0.01	284914.1	210570.6	2	NO	NO	0.03	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284914.1	210570.6	8.00E-05	YES	NO	1.38	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.0047	NO	NO	0.11	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.001	NO	NO	0.5	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.02	NO	NO	0.02	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Zinc (Dissolved)	0.011	mg/l	0.0025	284914.1	210570.6	0.014	NO	NO	0.79	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Fluorene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Naphthalene	< 0.0001	mg/l	0.0001	284914.1	210570.6	0.002	NO	NO	0.05	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Manganese (Dissolved)	0.78	mg/l	0.0005	284914.1	210570.6	0.123	NO	YES	6.34	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Sulphate	170	mg/l	1	284914.1	210570.6	400	NO	NO	0.42	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284914.1	210570.6	0.001	YES	NO	50	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Calcium (Dissolved)	71	mg/l	2	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284914.1	210570.6	0.001	YES	NO	50	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Total Phenols	< 0.03	mg/l	0.03	284914.1	210570.6	0.0077	YES	NO	3.9	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Total Hardness as CaCO3	280	mg/l	15	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6	0.0001	NO	NO	1	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284914.1	210570.6	0.0034	YES	NO	5.88	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6	6.30E-06	YES	NO	15.87	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6	1.70E-07	YES	NO	588.24	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.0012	NO	NO	0.42	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284914.1	210570.6	7.00E-05	NO	NO	0.71	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Nickel (Dissolved)	0.0015	mg/l	0.0005	284914.1	210570.6	0.004	NO	NO	0.38	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Arsenic (Dissolved)	0.0011	mg/l	0.0002	284914.1	210570.6	0.05	NO	NO	0.02	POINT (284914.08 210570.58)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SOP003.16	238.78	13.56	3	02/02/2023	Boron (Dissolved)	0.055	mg/l	0.01	284914.1	210570.6	2	NO	NO	0.03	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284914.1	210570.6	8.00E-05	YES	NO	1.38	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Chromium (Dissolved)	0.0012	mg/l	0.0005	284914.1	210570.6	0.0047	NO	NO	0.26	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.001	NO	NO	0.5	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.02	NO	NO	0.02	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Zinc (Dissolved)	0.0088	mg/l	0.0025	284914.1	210570.6	0.014	NO	NO	0.63	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Selenium (Dissolved)	0.00073	mg/l	0.0005	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284914.1	210570.6	0.002	NO	NO	0.05	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Manganese (Dissolved)	0.87	mg/l	0.0005	284914.1	210570.6	0.123	NO	YES	7.07	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Sulphate	150	mg/l	1	284914.1	210570.6	400	NO	NO	0.38	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284914.1	210570.6	0.001	YES	NO	50	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Calcium (Dissolved)	74	mg/l	2	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284914.1	210570.6	0.001	YES	NO	50	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Total Phenols	< 0.03	mg/l	0.03	284914.1	210570.6	0.0077	YES	NO	3.9	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Total Hardness as CaCO3	280	mg/l	15	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6	0.0001	NO	NO	1	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284914.1	210570.6	0.0034	YES	NO	5.88	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6	6.30E-06	YES	NO	15.87	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284914.1	210570.6	1.70E-07	YES	NO	588.24	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.0012	NO	NO	0.42	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284914.1	210570.6	7.00E-05	NO	NO	0.71	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.004	NO	NO	0.12	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284914.1	210570.6	0.05	NO	NO	0	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Boron (Dissolved)	0.054	mg/l	0.01	284914.1	210570.6	2	NO	NO	0.03	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284914.1	210570.6	8.00E-05	YES	NO	1.38	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Chromium (Dissolved)	0.00079	mg/l	0.0005	284914.1	210570.6	0.0047	NO	NO	0.17	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.001	NO	NO	0.5	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6	0.02	NO	NO	0.02	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284914.1	210570.6	0.014	NO	NO	0.18	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SOP003.16	238.78	13.66	4	14/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284914.1	210570.6	0.002	NO	NO	0.05	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Manganese (Dissolved)	0.74	mg/l	0.0005	284914.1	210570.6	0.123	NO	YES	6.02	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
BH29	230.74	0.83	1		PAH Sum of 4 - calculated		mg/l	4.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	PAH Sum of 4 - calculated		mg/l	4.00E-05	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH30	239.1	3.2	1		PAH Sum of 4 - calculated		mg/l	4.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	PAH Sum of 4 - calculated		mg/l	4.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH31	238.61	4.5	1		PAH Sum of 4 - calculated		mg/l	4.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	PAH Sum of 4 - calculated		mg/l	4.00E-05	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH32	244.73	4.76	1		PAH Sum of 4 - calculated		mg/l	4.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	PAH Sum of 4 - calculated		mg/l	4.00E-05	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH33	230.51	0.41	1		PAH Sum of 4 - calculated		mg/l	4.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	PAH Sum of 4 - calculated		mg/l	4.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH34	232.64	5.09	1		PAH Sum of 4 - calculated		mg/l	4.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	PAH Sum of 4 - calculated		mg/l	4.00E-05	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
S1-BH101	241.16	13.51	45	02/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH102	230.73	8.72	28	24/01/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH103	234.33	5.54	36	25/01/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH105	236.49	15.36	37	01/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH112	237.94	15	26	02/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH113	236.95	5.54	31	01/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284799.6	210645.6		NO	NO		POINT (284799.55 210645.61)
S1-BH121	230.88	3.3	19	24/01/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH122	230.82	1.76	22	24/01/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
SOP003.16	238.78	11	1	29/11/2022	PAH Sum of 4 - calculated		mg/l	0.0004	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284914.1	210570.6		NO	NO		POINT (284914.08 210570.58)
BH29	230.74	0.83	1		Sum Xylenes - calculated		mg/l	0.002	284719.5	210705.4	0.03	NO	NO	0.07	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	Sum Xylenes - calculated		mg/l	0.002	284719.5	210705.4	0.03	NO	NO	0.07	POINT (284719.48 210705.39)
BH30	239.1	3.2	1		Sum Xylenes - calculated		mg/l	0.002	284925.7	210549.4	0.03	NO	NO	0.07	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	Sum Xylenes - calculated		mg/l	0.002	284925.7	210549.4	0.03	NO	NO	0.07	POINT (284925.69 210549.41)
BH31	238.61	4.5	1		Sum Xylenes - calculated		mg/l	0.002	284880.8	210454.8	0.03	NO	NO	0.07	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	Sum Xylenes - calculated		mg/l	0.002	284880.8	210454.8	0.03	NO	NO	0.07	POINT (284880.77 210454.81)
BH32	244.73	4.76	1		Sum Xylenes - calculated		mg/l	0.002	284968	210230	0.03	NO	NO	0.07	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Sum Xylenes - calculated		mg/l	0.002	284968	210230	0.03	NO	NO	0.07	POINT (284967.95 210230.01)
BH33	230.51	0.41	1		Sum Xylenes - calculated		mg/l	0.002	284397	210700.9	0.03	NO	NO	0.07	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Sum Xylenes - calculated		mg/l	0.002	284397	210700.9	0.03	NO	NO	0.07	POINT (284397.04 210700.88)
BH34	232.64	5.09	1		Sum Xylenes - calculated		mg/l	0.002	284419.6	210543.6	0.03	NO	NO	0.07	POINT (284419.61 210543.6)

Appendix I.3

Table 1 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH34	232.64	4.76	2	14/03/2022	Sum Xylenes - calculated		mg/l	0.002	284419.6	210543.6	0.03	NO	NO	0.07	POINT (284419.61 210543.6)
BH29	230.74	0.83	1		pH	8	-	0	284719.5	210705.4	6.0-9.0		NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	14/03/2022	pH	7.7	-	0	284719.5	210705.4	6.0-9.0		NO		POINT (284719.48 210705.39)
BH30	239.1	3.2	1		pH	8.2	-	0	284925.7	210549.4	6.0-9.0		NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	14/03/2022	pH	7.2	-	0	284925.7	210549.4	6.0-9.0		NO		POINT (284925.69 210549.41)
BH31	238.61	4.5	1		pH	7.9	-	0	284880.8	210454.8	6.0-9.0		NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	14/03/2022	pH	7.8	-	0	284880.8	210454.8	6.0-9.0		NO		POINT (284880.77 210454.81)
BH32	244.73	4.76	1		pH	8.2	-	0	284968	210230	6.0-9.0		NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	pH	7.6	-	0	284968	210230	6.0-9.0		NO		POINT (284967.95 210230.01)
BH33	230.51	0.41	1		pH	8.3	-	0	284397	210700.9	6.0-9.0		NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	pH	7.7	-	0	284397	210700.9	6.0-9.0		NO		POINT (284397.04 210700.88)
BH34	232.64	5.09	1		pH	8.4	-	0	284419.6	210543.6	6.0-9.0		NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	14/03/2022	pH	7.8	-	0	284419.6	210543.6	6.0-9.0		NO		POINT (284419.61 210543.6)
S1-BH101	241.16	13.51	45	02/02/2023	pH	8.1	-	0	284925.4	210692	6.0-9.0		NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	14/02/2023	pH	7	-	0	284925.4	210692	6.0-9.0		NO		POINT (284925.38 210692.01)
S1-BH102	230.73	8.72	28	24/01/2023	pH	7.4	-	0	284544.5	210695.4	6.0-9.0		NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	01/02/2023	pH	7.6	-	0	284544.5	210695.4	6.0-9.0		NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	13/02/2023	pH	4.2	-	0	284544.5	210695.4	6.0-9.0		YES		POINT (284544.49 210695.4)
S1-BH103	234.33	5.54	36	25/01/2023	pH	8	-	0	284603.2	210646.5	6.0-9.0		NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	02/02/2023	pH	8.1	-	0	284603.2	210646.5	6.0-9.0		NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	14/02/2023	pH	7	-	0	284603.2	210646.5	6.0-9.0		NO		POINT (284603.15 210646.48)
S1-BH105	236.49	15.36	37	01/02/2023	pH	7.5	-	0	284719	210649.9	6.0-9.0		NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	14/02/2023	pH	4.8	-	0	284719	210649.9	6.0-9.0		YES		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	16/01/2023	pH	6.7	-	0	284719	210649.9	6.0-9.0		NO		POINT (284718.99 210649.88)
S1-BH112	237.94	15	26	02/02/2023	pH	7.9	-	0	284882.1	210600	6.0-9.0		NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	14/02/2023	pH	5.5	-	0	284882.1	210600	6.0-9.0		YES		POINT (284882.07 210599.97)
S1-BH113	236.95	5.54	31	01/02/2023	pH	7.4	-	0	284799.6	210645.6	6.0-9.0		NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	16/01/2023	pH	7.2	-	0	284799.6	210645.6	6.0-9.0		NO		POINT (284799.55 210645.61)
S1-BH121	230.88	3.3	19	24/01/2023	pH	7.6	-	0	284475.7	210703	6.0-9.0		NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	01/02/2023	pH	7.6	-	0	284475.7	210703	6.0-9.0		NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	13/02/2023	pH	4.1	-	0	284475.7	210703	6.0-9.0		YES		POINT (284475.72 210703)
S1-BH122	230.82	1.76	22	24/01/2023	pH	7.6	-	0	284632.9	210701.3	6.0-9.0		NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	01/02/2023	pH	7.5	-	0	284632.9	210701.3	6.0-9.0		NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	13/02/2023	pH	4.1	-	0	284632.9	210701.3	6.0-9.0		YES		POINT (284632.9 210701.3)
SOP003.16	238.78	11	1	29/11/2022	pH	7.2	-	0	284914.1	210570.6	6.0-9.0		NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	25/01/2023	pH	7.7	-	0	284914.1	210570.6	6.0-9.0		NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	02/02/2023	pH	7.3	-	0	284914.1	210570.6	6.0-9.0		NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	14/02/2023	pH	5.9	-	0	284914.1	210570.6	6.0-9.0		YES		POINT (284914.08 210570.58)

Appendix I.3

Table 2 Surface Water Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SW1	218.15	0	1	17/01/2023	Sulphate	81	mg/l	1	283461.8	210222.5	400	NO	NO	0.2	POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Cyanide (Total)	< 0.05	mg/l	0.05	283461.8	210222.5	0.001	YES	NO	50	POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Calcium (Dissolved)	45	mg/l	2	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Cyanide (Free)	< 0.05	mg/l	0.05	283461.8	210222.5	0.001	YES	NO	50	POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Total Phenols	< 0.03	mg/l	0.03	283461.8	210222.5	0.0077	YES	NO	3.9	POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Total Hardness as CaCO3	230	mg/l	15	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Anthracene	< 0.0001	mg/l	0.0001	283461.8	210222.5	0.0001	NO	NO	1	POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Pyrene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	283461.8	210222.5	0.0034	YES	NO	5.88	POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Fluoranthene	< 0.0001	mg/l	0.0001	283461.8	210222.5	6.30E-06	YES	NO	15.87	POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Chrysene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	283461.8	210222.5	1.70E-07	YES	NO	588.24	POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	283461.8	210222.5	0.0012	NO	NO	0.42	POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	283461.8	210222.5	7.00E-05	NO	NO	0.71	POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Nickel (Dissolved)	0.0032	mg/l	0.0005	283461.8	210222.5	0.004	NO	NO	0.8	POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Arsenic (Dissolved)	0.0006	mg/l	0.0002	283461.8	210222.5	0.05	NO	NO	0.01	POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Boron (Dissolved)	0.04	mg/l	0.01	283461.8	210222.5	2	NO	NO	0.02	POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	283461.8	210222.5	8.00E-05	YES	NO	1.38	POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	283461.8	210222.5	0.0047	NO	NO	0.11	POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Copper (Dissolved)	0.0006	mg/l	0.0005	283461.8	210222.5	0.001	NO	NO	0.6	POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	283461.8	210222.5	0.02	NO	NO	0.02	POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Zinc (Dissolved)	0.0034	mg/l	0.0025	283461.8	210222.5	0.014	NO	NO	0.24	POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Selenium (Dissolved)	0.0016	mg/l	0.0005	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Acenaphthene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Phenanthrene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Fluorene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Naphthalene	< 0.0001	mg/l	0.0001	283461.8	210222.5	0.002	NO	NO	0.05	POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Manganese (Dissolved)	0.05	mg/l	0.0005	283461.8	210222.5	0.123	NO	NO	0.41	POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Sulphate	110	mg/l	1	283461.8	210222.5	400	NO	NO	0.28	POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	283461.8	210222.5	0.001	YES	NO	50	POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Calcium (Dissolved)	41	mg/l	2	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	283461.8	210222.5	0.001	YES	NO	50	POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Total Phenols	< 0.03	mg/l	0.03	283461.8	210222.5	0.0077	YES	NO	3.9	POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Total Hardness as CaCO3	210	mg/l	15	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Dissolved Organic Carbon	2.1	mg/l	2	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Anthracene	< 0.0001	mg/l	0.0001	283461.8	210222.5	0.0001	NO	NO	1	POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Pyrene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	283461.8	210222.5	0.0034	YES	NO	5.88	POINT (283461.76 210222.53)

Appendix I.3

Table 2 Surface Water Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SW1	218.15	0	2	02/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	283461.8	210222.5	6.30E-06	YES	NO	15.87	POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Chrysene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	283461.8	210222.5	1.70E-07	YES	NO	588.24	POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	283461.8	210222.5	0.0012	NO	NO	0.42	POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	283461.8	210222.5	7.00E-05	NO	NO	0.71	POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Nickel (Dissolved)	0.0033	mg/l	0.0005	283461.8	210222.5	0.004	NO	NO	0.82	POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Arsenic (Dissolved)	0.00072	mg/l	0.0002	283461.8	210222.5	0.05	NO	NO	0.01	POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Boron (Dissolved)	0.051	mg/l	0.01	283461.8	210222.5	2	NO	NO	0.03	POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	283461.8	210222.5	8.00E-05	YES	NO	1.38	POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Chromium (Dissolved)	0.0025	mg/l	0.0005	283461.8	210222.5	0.0047	NO	NO	0.53	POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Copper (Dissolved)	0.00056	mg/l	0.0005	283461.8	210222.5	0.001	NO	NO	0.56	POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	283461.8	210222.5	0.02	NO	NO	0.02	POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	283461.8	210222.5	0.014	NO	NO	0.18	POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Selenium (Dissolved)	0.00097	mg/l	0.0005	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Fluorene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	283461.8	210222.5	0.002	NO	NO	0.05	POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Manganese (Dissolved)	0.0054	mg/l	0.0005	283461.8	210222.5	0.123	NO	NO	0.04	POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Sulphate	110	mg/l	1	283461.8	210222.5	400	NO	NO	0.28	POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	283461.8	210222.5	0.001	YES	NO	50	POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Calcium (Dissolved)	49	mg/l	2	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	283461.8	210222.5	0.001	YES	NO	50	POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Total Phenols	< 0.03	mg/l	0.03	283461.8	210222.5	0.0077	YES	NO	3.9	POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Total Hardness as CaCO3	240	mg/l	15	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Dissolved Organic Carbon	2.1	mg/l	2	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Anthracene	< 0.0001	mg/l	0.0001	283461.8	210222.5	0.0001	NO	NO	1	POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Pyrene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	283461.8	210222.5	0.0034	YES	NO	5.88	POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	283461.8	210222.5	6.30E-06	YES	NO	15.87	POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Chrysene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	283461.8	210222.5	1.70E-07	YES	NO	588.24	POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)

Appendix I.3

Table 2 Surface Water Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SW1	218.15	0	3	14/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	283461.8	210222.5	0.0012	NO	NO	0.42	POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	283461.8	210222.5	7.00E-05	NO	NO	0.71	POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Nickel (Dissolved)	0.0043	mg/l	0.0005	283461.8	210222.5	0.004	NO	YES	1.08	POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	283461.8	210222.5	0.05	NO	NO	0	POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Boron (Dissolved)	0.061	mg/l	0.01	283461.8	210222.5	2	NO	NO	0.03	POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	283461.8	210222.5	8.00E-05	YES	NO	1.38	POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Chromium (Dissolved)	0.0028	mg/l	0.0005	283461.8	210222.5	0.0047	NO	NO	0.6	POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Copper (Dissolved)	0.0011	mg/l	0.0005	283461.8	210222.5	0.001	NO	YES	1.1	POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	283461.8	210222.5	0.02	NO	NO	0.02	POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Zinc (Dissolved)	0.031	mg/l	0.0025	283461.8	210222.5	0.014	NO	YES	2.21	POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Fluorene	< 0.0001	mg/l	0.0001	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	283461.8	210222.5	0.002	NO	NO	0.05	POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Manganese (Dissolved)	0.015	mg/l	0.0005	283461.8	210222.5	0.123	NO	NO	0.12	POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	283461.8	210222.5		NO	NO		POINT (283461.76 210222.53)
SW2	227.21	0	1	17/01/2023	Sulphate	130	mg/l	1	284166.7	210489.8	400	NO	NO	0.32	POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284166.7	210489.8	0.001	YES	NO	50	POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Calcium (Dissolved)	49	mg/l	2	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284166.7	210489.8	0.001	YES	NO	50	POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Total Phenols	< 0.03	mg/l	0.03	284166.7	210489.8	0.0077	YES	NO	3.9	POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Total Hardness as CaCO3	230	mg/l	15	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Anthracene	< 0.0001	mg/l	0.0001	284166.7	210489.8	0.0001	NO	NO	1	POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Pyrene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284166.7	210489.8	0.0034	YES	NO	5.88	POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284166.7	210489.8	6.30E-06	YES	NO	15.87	POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Chrysene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284166.7	210489.8	1.70E-07	YES	NO	588.24	POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284166.7	210489.8	0.0012	NO	NO	0.42	POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284166.7	210489.8	7.00E-05	NO	NO	0.71	POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Nickel (Dissolved)	0.0055	mg/l	0.0005	284166.7	210489.8	0.004	NO	YES	1.38	POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Arsenic (Dissolved)	0.00084	mg/l	0.0002	284166.7	210489.8	0.05	NO	NO	0.02	POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Boron (Dissolved)	0.057	mg/l	0.01	284166.7	210489.8	2	NO	NO	0.03	POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284166.7	210489.8	8.00E-05	YES	NO	1.38	POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284166.7	210489.8	0.0047	NO	NO	0.11	POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284166.7	210489.8	0.001	NO	NO	0.5	POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284166.7	210489.8	0.02	NO	NO	0.02	POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Zinc (Dissolved)	0.0037	mg/l	0.0025	284166.7	210489.8	0.014	NO	NO	0.26	POINT (284166.74 210489.82)

Appendix I.3

Table 2 Surface Water Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SW2	227.21	0	1	17/01/2023	Selenium (Dissolved)	0.0013	mg/l	0.0005	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Fluorene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Naphthalene	< 0.0001	mg/l	0.0001	284166.7	210489.8	0.002	NO	NO	0.05	POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Manganese (Dissolved)	0.15	mg/l	0.0005	284166.7	210489.8	0.123	NO	YES	1.22	POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Sulphate	130	mg/l	1	284166.7	210489.8	400	NO	NO	0.32	POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284166.7	210489.8	0.001	YES	NO	50	POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Calcium (Dissolved)	32	mg/l	2	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284166.7	210489.8	0.001	YES	NO	50	POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Total Phenols	< 0.03	mg/l	0.03	284166.7	210489.8	0.0077	YES	NO	3.9	POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Total Hardness as CaCO3	190	mg/l	15	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Dissolved Organic Carbon	2.3	mg/l	2	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284166.7	210489.8	0.0001	NO	NO	1	POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284166.7	210489.8	0.0034	YES	NO	5.88	POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284166.7	210489.8	6.30E-06	YES	NO	15.87	POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284166.7	210489.8	1.70E-07	YES	NO	588.24	POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284166.7	210489.8	0.0012	NO	NO	0.42	POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284166.7	210489.8	7.00E-05	NO	NO	0.71	POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Nickel (Dissolved)	0.0044	mg/l	0.0005	284166.7	210489.8	0.004	NO	YES	1.1	POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284166.7	210489.8	0.05	NO	NO	0	POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Boron (Dissolved)	0.054	mg/l	0.01	284166.7	210489.8	2	NO	NO	0.03	POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Cadmium (Dissolved)	0.00018	mg/l	0.00011	284166.7	210489.8	8.00E-05	YES	YES	2.25	POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Chromium (Dissolved)	0.0027	mg/l	0.0005	284166.7	210489.8	0.0047	NO	NO	0.57	POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Copper (Dissolved)	0.00055	mg/l	0.0005	284166.7	210489.8	0.001	NO	NO	0.55	POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284166.7	210489.8	0.02	NO	NO	0.02	POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284166.7	210489.8	0.014	NO	NO	0.18	POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Selenium (Dissolved)	0.0012	mg/l	0.0005	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284166.7	210489.8	0.002	NO	NO	0.05	POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Manganese (Dissolved)	0.0064	mg/l	0.0005	284166.7	210489.8	0.123	NO	NO	0.05	POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Sulphate	120	mg/l	1	284166.7	210489.8	400	NO	NO	0.3	POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284166.7	210489.8	0.001	YES	NO	50	POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Calcium (Dissolved)	29	mg/l	2	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)

Appendix I.3

Table 2 Surface Water Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Sampling Date	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SW2	227.21	0	3	14/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284166.7	210489.8	0.001	YES	NO	50	POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Total Phenols	< 0.03	mg/l	0.03	284166.7	210489.8	0.0077	YES	NO	3.9	POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Total Hardness as CaCO3	190	mg/l	15	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Anthracene	< 0.0001	mg/l	0.0001	284166.7	210489.8	0.0001	NO	NO	1	POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Pyrene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284166.7	210489.8	0.0034	YES	NO	5.88	POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284166.7	210489.8	6.30E-06	YES	NO	15.87	POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Chrysene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284166.7	210489.8	1.70E-07	YES	NO	588.24	POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284166.7	210489.8	0.0012	NO	NO	0.42	POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284166.7	210489.8	7.00E-05	NO	NO	0.71	POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Nickel (Dissolved)	0.0051	mg/l	0.0005	284166.7	210489.8	0.004	NO	YES	1.27	POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284166.7	210489.8	0.05	NO	NO	0	POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Boron (Dissolved)	0.061	mg/l	0.01	284166.7	210489.8	2	NO	NO	0.03	POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284166.7	210489.8	8.00E-05	YES	NO	1.38	POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Chromium (Dissolved)	0.0028	mg/l	0.0005	284166.7	210489.8	0.0047	NO	NO	0.6	POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284166.7	210489.8	0.001	NO	NO	0.5	POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284166.7	210489.8	0.02	NO	NO	0.02	POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284166.7	210489.8	0.014	NO	NO	0.18	POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Fluorene	< 0.0001	mg/l	0.0001	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	284166.7	210489.8	0.002	NO	NO	0.05	POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Manganese (Dissolved)	0.02	mg/l	0.0005	284166.7	210489.8	0.123	NO	NO	0.16	POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284166.7	210489.8		NO	NO		POINT (284166.74 210489.82)
SW3	224.97	0	1	17/01/2023	Sulphate	75	mg/l	1	285586.9	210282.7	400	NO	NO	0.19	POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Cyanide (Total)	< 0.05	mg/l	0.05	285586.9	210282.7	0.001	YES	NO	50	POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Calcium (Dissolved)	28	mg/l	2	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Cyanide (Free)	< 0.05	mg/l	0.05	285586.9	210282.7	0.001	YES	NO	50	POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Total Phenols	< 0.03	mg/l	0.03	285586.9	210282.7	0.0077	YES	NO	3.9	POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Total Hardness as CaCO3	270	mg/l	15	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Anthracene	< 0.0001	mg/l	0.0001	285586.9	210282.7	0.0001	NO	NO	1	POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Pyrene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	285586.9	210282.7	0.0034	YES	NO	5.88	POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)