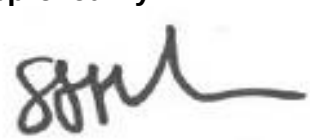
eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	22-47318-1
Initial Date of Issue:	04-Jan-2023
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G22069 Global Centre of Rail Excellent (GCRE)

Quotation No.:	Q22-28967	**Date Received:**	09-Dec-2022
Order No.:		**Date Instructed:**	13-Dec-2022
No. of Samples:	1		
Turnaround (Wkdays):	5	**Results Due:**	19-Dec-2022
Date Approved:	04-Jan-2023		

Approved By:



Details:	Stuart Henderson, Technical Manager

Results - Soil

Project: G22069 Global Centre of Rail Excellent (GCRE)

Client: Jackson Geo Services			**Chemtest Job No.:**		22-47318
Quotation No.: Q22-28967			**Chemtest Sample ID.:**		1561740
Order No.:			Client Sample Ref.:		105
			Sample Location:		S1-BH109
			Sample Type:		SOIL
			Top Depth (m):		3.70
			Bottom Depth (m):		3.90
			Date Sampled:		07-Dec-2022
			Asbestos Lab:		COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
ACM Type	U	2192		N/A	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected
Moisture	N	2030	%	0.020	17
pH	M	2010		4.0	7.7
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	< 0.40
Sulphate (2:1 Water Soluble) as SO4 mg/l	M	2120	mg/l	10.000	54
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50
Arsenic	M	2455	mg/kg	0.5	6.0
Cadmium	M	2455	mg/kg	0.10	0.16
Chromium	M	2455	mg/kg	0.5	1.7
Copper	M	2455	mg/kg	0.50	35
Mercury	M	2455	mg/kg	0.05	0.12
Nickel	M	2455	mg/kg	0.50	11
Lead	M	2455	mg/kg	0.50	53
Selenium	M	2455	mg/kg	0.25	2.0
Vanadium	U	2455	mg/kg	0.5	3.3
Zinc	M	2455	mg/kg	0.50	32
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50
Organic Matter	M	2625	%	0.40	82
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C8-C10	N	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C10-C12	N	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C12-C16	N	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C16-C21	N	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C21-C35	N	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C8-C10	N	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C10-C12	N	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C12-C16	N	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C16-C21	N	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C21-C35	N	2680	mg/kg	1.0	< 1.0

Results - Soil

Project: G22069 Global Centre of Rail Excellent (GCRE)

Client: Jackson Geo Services			**Chemtest Job No.:**		22-47318
Quotation No.: Q22-28967			**Chemtest Sample ID.:**		1561740
Order No.:			Client Sample Ref.:		105
			Sample Location:		S1-BH109
			Sample Type:		SOIL
			Top Depth (m):		3.70
			Bottom Depth (m):		3.90
			Date Sampled:		07-Dec-2022
			Asbestos Lab:		COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10
Benzene	M	2760	µg/kg	1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0
Naphthalene	M	2800	mg/kg	0.10	17
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	1.5
Fluorene	M	2800	mg/kg	0.10	0.91
Phenanthrene	M	2800	mg/kg	0.10	1.9
Anthracene	M	2800	mg/kg	0.10	0.50
Fluoranthene	M	2800	mg/kg	0.10	0.63
Pyrene	M	2800	mg/kg	0.10	0.46
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	0.53
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	23
Total Phenols	M	2920	mg/kg	0.10	0.63

Results - 2 Stage WAC

Project: G22069 Global Centre of Rail Excellent (GCRE)

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	22-47318								
Chemtest Sample ID:	1561740								
Sample Ref:	105						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Sample ID:									
Sample Location:	S1-BH109								
Top Depth(m):	3.70								
Bottom Depth(m):	3.90								
Sampling Date:	07-Dec-2022								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	M	%			48	3	5	6
Loss On Ignition	2610	M	%			33	--	--	10
Total BTEX	2760	M	mg/kg			< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg			< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg			110	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			28	100	--	--
pH	2010	M				7.7	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			0.0080	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455	U	0.0029	0.0014	0.0057	0.015	0.5	2	25
Barium	1455	U	0.044	0.022	0.087	0.24	20	100	300
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5
Chromium	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	70
Copper	1455	U	0.0006	0.0006	0.0012	0.0006	2	50	100
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2
Molybdenum	1455	U	0.0050	0.0015	0.0099	0.018	0.5	10	30
Nickel	1455	U	0.0025	0.0015	0.0049	0.016	0.4	10	40
Lead	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	50
Antimony	1455	U	0.015	0.0055	0.030	0.063	0.06	0.7	5
Selenium	1455	U	0.0096	0.0030	0.019	0.036	0.1	0.5	7
Zinc	1455	U	0.009	0.003	0.017	0.037	4	50	200
Chloride	1220	U	< 1.0	< 1.0	< 10	< 10	800	15000	25000
Fluoride	1220	U	0.24	0.17	< 1.0	1.8	10	150	500
Sulphate	1220	U	21	5.6	41	70	1000	20000	50000
Total Dissolved Solids	1020	N	130	130	260	1300	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	6.9	2.6	< 50	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	17

Leachate Test Information	
Leachant volume 1st extract/l	0.313
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.158

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity 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.
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).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
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.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	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	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)

Test Methods

SOP	Title	Parameters included	Method summary
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil 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*	Dichloromethane extraction / GC-MS
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

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

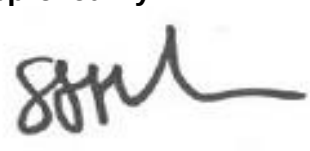
If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	22-47321-1
Initial Date of Issue:	03-Jan-2023
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G22069 Global Centre of Rail Excellence (GCRE)
Quotation No.:	Q22-28967
Order No.:	2001
No. of Samples:	2
Turnaround (Wkdays):	5
Date Approved:	03-Jan-2023
Approved By:	
Details:	Stuart Henderson, Technical Manager

Date Received:	09-Dec-2022
Date Instructed:	13-Dec-2022
Results Due:	19-Dec-2022



Results - Leachate

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services				**Chemtest Job No.:**		22-47321
Quotation No.: Q22-28967				**Chemtest Sample ID.:**		1561750
Order No.: 2001				Client Sample Ref.:		1
				Sample Location:		S1-BH109
				Sample Type:		SOIL
				Top Depth (m):		0.20
				Bottom Depth (m):		0.30
				Date Sampled:		06-Dec-2022
Determinand	**Accred.**	**SOP**	**Type**	**Units**	**LOD**	
pH	U	1010	10:1		N/A	9.4
Sulphate	U	1220	10:1	mg/l	1.0	6.8
Cyanide (Total)	U	1300	10:1	mg/l	0.050	< 0.050
Cyanide (Free)	U	1300	10:1	mg/l	0.050	< 0.050
Arsenic (Dissolved)	U	1455	10:1	µg/l	0.20	0.42
Cadmium (Dissolved)	U	1455	10:1	µg/l	0.11	< 0.11
Chromium (Dissolved)	U	1455	10:1	µg/l	0.50	0.73
Copper (Dissolved)	U	1455	10:1	µg/l	0.50	0.60
Mercury (Dissolved)	U	1455	10:1	µg/l	0.05	< 0.05
Nickel (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Lead (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Selenium (Dissolved)	U	1455	10:1	µg/l	0.50	0.98
Vanadium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Zinc (Dissolved)	U	1455	10:1	µg/l	2.5	< 2.5
Chromium (Hexavalent)	U	1490	10:1	µg/l	20	< 20
Total Phenols	U	1920	10:1	mg/l	0.030	< 0.030

Results - Soil

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services			**Chemtest Job No.:**		22-47321	22-47321
Quotation No.: Q22-28967			**Chemtest Sample ID.:**		1561750	1561752
Order No.: 2001			Client Sample Ref.:		1	4
			Sample Location:		S1-BH109	S1-BH109
			Sample Type:		SOIL	SOIL
			Top Depth (m):		0.20	0.70
			Bottom Depth (m):		0.30	0.80
			Date Sampled:		06-Dec-2022	06-Dec-2022
			Asbestos Lab:		DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
ACM Type	U	2192		N/A	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	11	7.3
pH	U	2010		4.0	8.1	8.2
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	< 0.40	0.42
Sulphate (2:1 Water Soluble) as SO4 mg/l	U	2120	mg/l	10.000	230	89
Cyanide (Free)	U	2300	mg/kg	0.50	< 0.50	< 0.50
Cyanide (Total)	U	2300	mg/kg	0.50	< 0.50	< 0.50
Arsenic	U	2455	mg/kg	0.5	3.9	3.6
Cadmium	U	2455	mg/kg	0.10	< 0.10	< 0.10
Chromium	U	2455	mg/kg	0.5	4.8	2.2
Copper	U	2455	mg/kg	0.50	22	20
Mercury	U	2455	mg/kg	0.05	< 0.05	< 0.05
Nickel	U	2455	mg/kg	0.50	9.3	15
Lead	U	2455	mg/kg	0.50	10	12
Selenium	U	2455	mg/kg	0.25	0.41	0.80
Vanadium	U	2455	mg/kg	0.5	3.5	3.2
Zinc	U	2455	mg/kg	0.50	31	41
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50
Organic Matter	U	2625	%	0.40	100	85
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	N	2680	mg/kg	1.0	< 1.0	< 1.0

Results - Soil

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services			**Chemtest Job No.:**		22-47321	22-47321
Quotation No.: Q22-28967			**Chemtest Sample ID.:**		1561750	1561752
Order No.: 2001			Client Sample Ref.:		1	4
			Sample Location:		S1-BH109	S1-BH109
			Sample Type:		SOIL	SOIL
			Top Depth (m):		0.20	0.70
			Bottom Depth (m):		0.30	0.80
			Date Sampled:		06-Dec-2022	06-Dec-2022
			Asbestos Lab:		DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10
Benzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
Toluene	U	2760	µg/kg	1.0	< 1.0	< 1.0
Ethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
m & p-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0
o-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0
Naphthalene	U	2800	mg/kg	0.10	9.0	2.1
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene	U	2800	mg/kg	0.10	0.35	< 0.10
Fluorene	U	2800	mg/kg	0.10	0.27	< 0.10
Phenanthrene	U	2800	mg/kg	0.10	1.9	< 0.10
Anthracene	U	2800	mg/kg	0.10	0.24	< 0.10
Fluoranthene	U	2800	mg/kg	0.10	0.92	< 0.10
Pyrene	U	2800	mg/kg	0.10	0.55	< 0.10
Benzo[a]anthracene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Chrysene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	13	2.1
Total Phenols	U	2920	mg/kg	0.10	< 0.10	< 0.10

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.
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.
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.
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil 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*	Dichloromethane extraction / GC-MS

Test Methods

SOP	Title	Parameters included	Method summary
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

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.:	22-47450-1		
Initial Date of Issue:	11-Jan-2023		
Client	Jackson Geo Services		
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA		
Contact(s):	Adam Putt James Power		
Project	G22069 Global Centre of Rail Excellence (GCRE)		
Quotation No.:	Q22-28967	**Date Received:**	12-Dec-2022
Order No.:		**Date Instructed:**	05-Jan-2023
No. of Samples:	3		
Turnaround (Wkdays):	5	**Results Due:**	11-Jan-2023
Date Approved:	11-Jan-2023		
Approved By:			
Details:	Stuart Henderson, Technical Manager		

Results - Leachate

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services				**Chemtest Job No.:**		22-47450
Quotation No.: Q22-28967				**Chemtest Sample ID.:**		1562349
Order No.:				Client Sample Ref.:		2
				Sample Location:		S1-BH101
				Sample Type:		SOIL
				Top Depth (m):		0.30
				Bottom Depth (m):		0.40
				Date Sampled:		09-Dec-2022
Determinand	**Accred.**	**SOP**	**Type**	**Units**	**LOD**	
pH	U	1010	10:1		N/A	6.5
Sulphate	U	1220	10:1	mg/l	1.0	< 1.0
Cyanide (Total)	U	1300	10:1	mg/l	0.050	< 0.050
Cyanide (Free)	U	1300	10:1	mg/l	0.050	< 0.050
Arsenic (Dissolved)	U	1455	10:1	µg/l	0.20	2.1
Cadmium (Dissolved)	U	1455	10:1	µg/l	0.11	< 0.11
Chromium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Copper (Dissolved)	U	1455	10:1	µg/l	0.50	3.7
Mercury (Dissolved)	U	1455	10:1	µg/l	0.05	< 0.05
Nickel (Dissolved)	U	1455	10:1	µg/l	0.50	0.65
Lead (Dissolved)	U	1455	10:1	µg/l	0.50	1.9
Selenium (Dissolved)	U	1455	10:1	µg/l	0.50	2.2
Vanadium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Zinc (Dissolved)	U	1455	10:1	µg/l	2.5	9.0
Chromium (Hexavalent)	U	1490	10:1	µg/l	20	< 20
Total Phenols	U	1920	10:1	mg/l	0.030	< 0.030

Results - Soil

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services			**Chemtest Job No.:**		22-47450	22-47450	22-47450
Quotation No.: Q22-28967			**Chemtest Sample ID.:**		1562348	1562349	1562351
Order No.:			Client Sample Ref.:		111	2	5
			Sample Location:		S1-BH109	S1-BH101	S1-BH101
			Sample Type:		SOIL	SOIL	SOIL
			Top Depth (m):		6.70	0.30	1.00
			Bottom Depth (m):		6.90	0.40	1.10
			Date Sampled:		08-Dec-2022	09-Dec-2022	09-Dec-2022
			Asbestos Lab:		DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
ACM Type	U	2192		N/A	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	11	13	10
pH	U	2010		4.0	7.0	6.9	6.9
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	0.61	0.59	0.46
Sulphate (2:1 Water Soluble) as SO4 mg/l	U	2120	mg/l	10.000	58	16	79
Cyanide (Free)	U	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Cyanide (Total)	U	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Arsenic	U	2455	mg/kg	0.5	15	14	18
Cadmium	U	2455	mg/kg	0.10	0.21	0.38	0.62
Chromium	U	2455	mg/kg	0.5	4.1	5.0	6.3
Copper	U	2455	mg/kg	0.50	48	71	87
Mercury	U	2455	mg/kg	0.05	0.30	0.10	0.08
Nickel	U	2455	mg/kg	0.50	20	38	31
Lead	U	2455	mg/kg	0.50	44	62	66
Selenium	U	2455	mg/kg	0.25	3.3	1.5	1.6
Vanadium	U	2455	mg/kg	0.5	6.2	8.1	7.6
Zinc	U	2455	mg/kg	0.50	58	240	280
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Organic Matter	U	2625	%	0.40	91	30	29
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C8-C10	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C10-C12	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C12-C16	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C16-C21	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C21-C35	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C8-C10	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C10-C12	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C12-C16	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C16-C21	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C21-C35	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0

Results - Soil

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services			**Chemtest Job No.:**		22-47450	22-47450	22-47450
Quotation No.: Q22-28967			**Chemtest Sample ID.:**		1562348	1562349	1562351
Order No.:			Client Sample Ref.:		111	2	5
			Sample Location:		S1-BH109	S1-BH101	S1-BH101
			Sample Type:		SOIL	SOIL	SOIL
			Top Depth (m):		6.70	0.30	1.00
			Bottom Depth (m):		6.90	0.40	1.10
			Date Sampled:		08-Dec-2022	09-Dec-2022	09-Dec-2022
			Asbestos Lab:		DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	[B] < 10	[B] < 10	[B] < 10
Benzene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Toluene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Ethylbenzene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
m & p-Xylene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
o-Xylene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Naphthalene	U	2800	mg/kg	0.10	0.28	1.1	0.86
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	2800	mg/kg	0.10	< 0.10	0.20	0.29
Anthracene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10

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:
1562348	111		S1-BH109	08-Dec-2022	B	Amber Glass 250ml
1562348	111		S1-BH109	08-Dec-2022	B	Amber Glass 60ml
1562348	111		S1-BH109	08-Dec-2022	B	Plastic Tub 500g
1562349	2		S1-BH101	09-Dec-2022	B	Amber Glass 250ml
1562349	2		S1-BH101	09-Dec-2022	B	Amber Glass 60ml
1562349	2		S1-BH101	09-Dec-2022	B	Plastic Tub 500g
1562351	5		S1-BH101	09-Dec-2022	B	Amber Glass 250ml
1562351	5		S1-BH101	09-Dec-2022	B	Amber Glass 60ml
1562351	5		S1-BH101	09-Dec-2022	B	Plastic Tub 500g

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.
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.
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.
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil 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*	Dichloromethane extraction / GC-MS

Test Methods

SOP	Title	Parameters included	Method summary
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

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

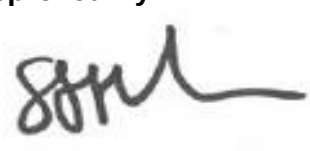
All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

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.:	22-47806-1		
Initial Date of Issue:	11-Jan-2023		
Client	Jackson Geo Services		
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA		
Contact(s):	Adam Putt James Power		
Project	G22069 Global Centre of Rail Excellence (GCRE)		
Quotation No.:	Q22-28967	**Date Received:**	14-Dec-2022
Order No.:	2001	**Date Instructed:**	06-Jan-2023
No. of Samples:	3		
Turnaround (Wkdays):	5	**Results Due:**	12-Jan-2023
Date Approved:	11-Jan-2023		
Approved By:			



Details:	Stuart Henderson, Technical Manager

Results - Leachate

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services				**Chemtest Job No.:**		22-47806
Quotation No.: Q22-28967				**Chemtest Sample ID.:**		1563967
Order No.: 2001				Client Sample Ref.:		112
				Sample Location:		S1-BH109
				Sample Type:		SOIL
				Top Depth (m):		8.40
				Bottom Depth (m):		8.60
				Date Sampled:		12-Dec-2022
Determinand	**Accred.**	**SOP**	**Type**	**Units**	**LOD**	
pH	U	1010	10:1		N/A	7.7
Sulphate	U	1220	10:1	mg/l	1.0	1.8
Cyanide (Total)	U	1300	10:1	mg/l	0.050	< 0.050
Cyanide (Free)	U	1300	10:1	mg/l	0.050	< 0.050
Arsenic (Dissolved)	U	1455	10:1	µg/l	0.20	0.29
Cadmium (Dissolved)	U	1455	10:1	µg/l	0.11	< 0.11
Chromium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Copper (Dissolved)	U	1455	10:1	µg/l	0.50	0.81
Mercury (Dissolved)	U	1455	10:1	µg/l	0.05	< 0.05
Nickel (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Lead (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Selenium (Dissolved)	U	1455	10:1	µg/l	0.50	0.56
Vanadium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Zinc (Dissolved)	U	1455	10:1	µg/l	2.5	< 2.5
Chromium (Hexavalent)	U	1490	10:1	µg/l	20	< 20
Total Phenols	U	1920	10:1	mg/l	0.030	< 0.030

Results - Soil

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services			**Chemtest Job No.:**		22-47806	22-47806	22-47806
Quotation No.: Q22-28967			**Chemtest Sample ID.:**		1563967	1563969	1563971
Order No.: 2001			Client Sample Ref.:		112	2	5
			Sample Location:		S1-BH109	S1-BH116	S1-BH116
			Sample Type:		SOIL	SOIL	SOIL
			Top Depth (m):		8.40	0.20	0.90
			Bottom Depth (m):		8.60	0.30	1.00
			Date Sampled:		12-Dec-2022	12-Dec-2022	12-Dec-2022
			Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
ACM Type	U	2192		N/A	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	11	8.4	4.1
pH	U	2010		4.0	6.8	7.9	7.1
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	< 0.40	< 0.40	4.9
Sulphate (2:1 Water Soluble) as SO4 mg/l	U	2120	mg/l	10.000	< 10	< 10	16
Cyanide (Free)	U	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Cyanide (Total)	U	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Arsenic	U	2455	mg/kg	0.5	2.7	26	5.5
Cadmium	U	2455	mg/kg	0.10	0.14	0.13	0.11
Chromium	U	2455	mg/kg	0.5	14	3.8	3.4
Copper	U	2455	mg/kg	0.50	31	65	41
Mercury	U	2455	mg/kg	0.05	< 0.05	0.38	0.11
Nickel	U	2455	mg/kg	0.50	28	26	25
Lead	U	2455	mg/kg	0.50	15	54	24
Selenium	U	2455	mg/kg	0.25	0.62	4.2	1.7
Vanadium	U	2455	mg/kg	0.5	9.0	6.4	4.1
Zinc	U	2455	mg/kg	0.50	76	50	56
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Organic Matter	U	2625	%	0.40	1.4	26	28
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C8-C10	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C10-C12	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C12-C16	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C16-C21	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C21-C35	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C8-C10	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C10-C12	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C12-C16	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C16-C21	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C21-C35	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0

Results - Soil

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services			**Chemtest Job No.:**		22-47806	22-47806	22-47806
Quotation No.: Q22-28967			**Chemtest Sample ID.:**		1563967	1563969	1563971
Order No.: 2001			Client Sample Ref.:		112	2	5
			Sample Location:		S1-BH109	S1-BH116	S1-BH116
			Sample Type:		SOIL	SOIL	SOIL
			Top Depth (m):		8.40	0.20	0.90
			Bottom Depth (m):		8.60	0.30	1.00
			Date Sampled:		12-Dec-2022	12-Dec-2022	12-Dec-2022
			Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	[B] < 10	[B] < 10	[B] < 10
Benzene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Toluene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Ethylbenzene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
m & p-Xylene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
o-Xylene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Naphthalene	U	2800	mg/kg	0.10	0.17	0.27	0.23
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	2800	mg/kg	0.10	0.23	0.21	0.18
Anthracene	U	2800	mg/kg	0.10	0.11	< 0.10	< 0.10
Fluoranthene	U	2800	mg/kg	0.10	0.24	0.13	0.17
Pyrene	U	2800	mg/kg	0.10	0.18	0.14	0.12
Benzo[a]anthracene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10

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:
1563967	112		S1-BH109	12-Dec-2022	B	Amber Glass 250ml
1563967	112		S1-BH109	12-Dec-2022	B	Amber Glass 60ml
1563967	112		S1-BH109	12-Dec-2022	B	Plastic Tub 500g
1563969	2		S1-BH116	12-Dec-2022	B	Amber Glass 250ml
1563969	2		S1-BH116	12-Dec-2022	B	Amber Glass 60ml
1563969	2		S1-BH116	12-Dec-2022	B	Plastic Tub 500g
1563971	5		S1-BH116	12-Dec-2022	B	Amber Glass 250ml
1563971	5		S1-BH116	12-Dec-2022	B	Amber Glass 60ml
1563971	5		S1-BH116	12-Dec-2022	B	Plastic Tub 500g

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.
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.
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.
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil 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*	Dichloromethane extraction / GC-MS

Test Methods

SOP	Title	Parameters included	Method summary
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

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

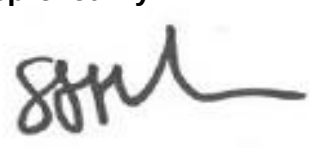
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	22-47960-1
Initial Date of Issue:	12-Jan-2023
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G22069 Global Centre of Rail Excellence (GCRE)

Quotation No.:	Q22-28967	**Date Received:**	15-Dec-2022
Order No.:	2001	**Date Instructed:**	06-Jan-2023
No. of Samples:	4		
Turnaround (Wkdays):	5	**Results Due:**	12-Jan-2023
Date Approved:	12-Jan-2023		

Approved By:



Details: Stuart Henderson, Technical Manager

Results - Leachate

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services				**Chemtest Job No.:**		22-47960
Quotation No.: Q22-28967				**Chemtest Sample ID.:**		1564728
Order No.: 2001				Client Sample Ref.:		109
				Sample Location:		S1-BH101
				Sample Type:		SOIL
				Top Depth (m):		7.50
				Bottom Depth (m):		7.70
				Date Sampled:		13-Dec-2022
Determinand	**Accred.**	**SOP**	**Type**	**Units**	**LOD**	
pH	U	1010	10:1		N/A	7.7
Sulphate	U	1220	10:1	mg/l	1.0	7.0
Cyanide (Total)	U	1300	10:1	mg/l	0.050	< 0.050
Cyanide (Free)	U	1300	10:1	mg/l	0.050	< 0.050
Arsenic (Dissolved)	U	1455	10:1	µg/l	0.20	0.24
Cadmium (Dissolved)	U	1455	10:1	µg/l	0.11	< 0.11
Chromium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Copper (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Mercury (Dissolved)	U	1455	10:1	µg/l	0.05	< 0.05
Nickel (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Lead (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Selenium (Dissolved)	U	1455	10:1	µg/l	0.50	0.66
Vanadium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Zinc (Dissolved)	U	1455	10:1	µg/l	2.5	< 2.5
Chromium (Hexavalent)	U	1490	10:1	µg/l	20	< 20
Total Phenols	U	1920	10:1	mg/l	0.030	< 0.030

Results - Soil

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services			**Chemtest Job No.:**		22-47960	22-47960	22-47960	22-47960
Quotation No.: Q22-28967			**Chemtest Sample ID.:**		1564725	1564726	1564728	1564730
Order No.: 2001			Client Sample Ref.:		102	105	109	113
			Sample Location:		S1-BH101	S1-BH101	S1-BH101	S1-BH101
			Sample Type:		SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		2.70	4.50	7.50	9.50
			Bottom Depth (m):		3.00	4.70	7.70	9.70
			Date Sampled:		13-Dec-2022	13-Dec-2022	13-Dec-2022	13-Dec-2022
			Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**				
ACM Type	U	2192		N/A	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	8.5	7.0	8.6	7.2
pH	U	2010		4.0	7.8	7.9	7.4	8.0
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	0.47	0.50	0.42	< 0.40
Sulphate (2:1 Water Soluble) as SO4 mg/l	U	2120	mg/l	10.000	140	25	48	< 10
Cyanide (Free)	U	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Cyanide (Total)	U	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Arsenic	U	2455	mg/kg	0.5	21	7.1	12	6.8
Cadmium	U	2455	mg/kg	0.10	0.78	0.18	0.24	0.20
Chromium	U	2455	mg/kg	0.5	7.2	4.9	3.6	4.3
Copper	U	2455	mg/kg	0.50	120	52	61	51
Mercury	U	2455	mg/kg	0.05	0.11	0.10	0.15	0.11
Nickel	U	2455	mg/kg	0.50	34	29	25	31
Lead	U	2455	mg/kg	0.50	150	27	39	42
Selenium	U	2455	mg/kg	0.25	2.8	1.5	2.3	3.2
Vanadium	U	2455	mg/kg	0.5	9.5	6.0	5.0	5.7
Zinc	U	2455	mg/kg	0.50	350	83	63	83
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter	U	2625	%	0.40	55	11	85	44
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C8-C10	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C10-C12	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C12-C16	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C16-C21	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C21-C35	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C8-C10	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C10-C12	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C12-C16	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C16-C21	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C21-C35	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0

Results - Soil

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services			**Chemtest Job No.:**		22-47960	22-47960	22-47960	22-47960
Quotation No.: Q22-28967			**Chemtest Sample ID.:**		1564725	1564726	1564728	1564730
Order No.: 2001			Client Sample Ref.:		102	105	109	113
			Sample Location:		S1-BH101	S1-BH101	S1-BH101	S1-BH101
			Sample Type:		SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		2.70	4.50	7.50	9.50
			Bottom Depth (m):		3.00	4.70	7.70	9.70
			Date Sampled:		13-Dec-2022	13-Dec-2022	13-Dec-2022	13-Dec-2022
			Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**				
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	[B] < 10	[B] < 10	[B] < 10	[B] < 10
Benzene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Toluene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Ethylbenzene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
m & p-Xylene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
o-Xylene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Naphthalene	U	2800	mg/kg	0.10	0.93	0.25	0.93	8.0
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	2800	mg/kg	0.10	< 0.10	< 0.10	0.18	1.4
Fluorene	U	2800	mg/kg	0.10	< 0.10	< 0.10	0.16	0.70
Phenanthrene	U	2800	mg/kg	0.10	0.52	< 0.10	0.70	1.4
Anthracene	U	2800	mg/kg	0.10	< 0.10	< 0.10	0.13	0.35
Fluoranthene	U	2800	mg/kg	0.10	0.21	< 0.10	0.51	0.42
Pyrene	U	2800	mg/kg	0.10	0.17	< 0.10	0.37	0.24
Benzo[a]anthracene	U	2800	mg/kg	0.10	< 0.10	< 0.10	0.20	< 0.10
Chrysene	U	2800	mg/kg	0.10	< 0.10	< 0.10	0.21	< 0.10
Benzo[b]fluoranthene	U	2800	mg/kg	0.10	< 0.10	< 0.10	0.36	< 0.10
Benzo[k]fluoranthene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	3.8	13
Total Phenols	U	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10

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:
1564725	102		S1-BH101	13-Dec-2022	B	Amber Glass 250ml
1564725	102		S1-BH101	13-Dec-2022	B	Amber Glass 60ml
1564725	102		S1-BH101	13-Dec-2022	B	Plastic Tub 500g
1564726	105		S1-BH101	13-Dec-2022	B	Amber Glass 250ml
1564726	105		S1-BH101	13-Dec-2022	B	Amber Glass 60ml
1564726	105		S1-BH101	13-Dec-2022	B	Plastic Tub 500g
1564728	109		S1-BH101	13-Dec-2022	B	Amber Glass 250ml
1564728	109		S1-BH101	13-Dec-2022	B	Amber Glass 60ml
1564728	109		S1-BH101	13-Dec-2022	B	Plastic Tub 500g
1564730	113		S1-BH101	13-Dec-2022	B	Amber Glass 250ml
1564730	113		S1-BH101	13-Dec-2022	B	Amber Glass 60ml
1564730	113		S1-BH101	13-Dec-2022	B	Plastic Tub 500g

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.
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.
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.
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil 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*	Dichloromethane extraction / GC-MS

Test Methods

SOP	Title	Parameters included	Method summary
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

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

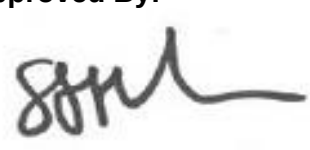
If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	22-47963-1
Initial Date of Issue:	11-Jan-2023
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G22069 Global Centre of Rail Excellence (GCRE)
Quotation No.:	Q22-28967
Order No.:	2001
No. of Samples:	3
Turnaround (Wkdays):	5
Date Approved:	11-Jan-2023
Approved By:	

Date Received:	15-Dec-2022
Date Instructed:	05-Jan-2023
Results Due:	11-Jan-2023



Details: Stuart Henderson, Technical Manager

Results - Leachate

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services				**Chemtest Job No.:**		22-47963
Quotation No.: Q22-28967				**Chemtest Sample ID.:**		1564752
Order No.: 2001				Client Sample Ref.:		104
				Sample Location:		S1-BH116
				Sample Type:		SOIL
				Top Depth (m):		2.70
				Bottom Depth (m):		2.80
				Date Sampled:		13-Dec-2022
Determinand	**Accred.**	**SOP**	**Type**	**Units**	**LOD**	
pH	U	1010	10:1		N/A	7.3
Sulphate	U	1220	10:1	mg/l	1.0	4.3
Cyanide (Total)	U	1300	10:1	mg/l	0.050	< 0.050
Cyanide (Free)	U	1300	10:1	mg/l	0.050	< 0.050
Arsenic (Dissolved)	U	1455	10:1	µg/l	0.20	0.91
Cadmium (Dissolved)	U	1455	10:1	µg/l	0.11	< 0.11
Chromium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Copper (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Mercury (Dissolved)	U	1455	10:1	µg/l	0.05	< 0.05
Nickel (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Lead (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Selenium (Dissolved)	U	1455	10:1	µg/l	0.50	2.5
Vanadium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Zinc (Dissolved)	U	1455	10:1	µg/l	2.5	< 2.5
Chromium (Hexavalent)	U	1490	10:1	µg/l	20	< 20
Total Phenols	U	1920	10:1	mg/l	0.030	< 0.030

Results - Soil

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services			**Chemtest Job No.:**		22-47963	22-47963	22-47963
Quotation No.: Q22-28967			**Chemtest Sample ID.:**		1564752	1564754	1564755
Order No.: 2001			Client Sample Ref.:		104	108	110
			Sample Location:		S1-BH116	S1-BH116	S1-BH116
			Sample Type:		SOIL	SOIL	SOIL
			Top Depth (m):		2.70	4.50	5.10
			Bottom Depth (m):		2.80	4.65	5.20
			Date Sampled:		13-Dec-2022	13-Dec-2022	13-Dec-2022
			Asbestos Lab:		DURHAM	DURHAM	
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
ACM Type	U	2192		N/A	-	-	
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	
Moisture	N	2030	%	0.020	7.1	11	22
pH	U	2010		4.0	6.9	6.5	6.5
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	< 0.40	0.52	0.52
Sulphate (2:1 Water Soluble) as SO4 mg/l	U	2120	mg/l	10.000	26	85	32
Cyanide (Free)	U	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Cyanide (Total)	U	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Arsenic	U	2455	mg/kg	0.5	7.3	7.3	6.1
Cadmium	U	2455	mg/kg	0.10	0.12	< 0.10	< 0.10
Chromium	U	2455	mg/kg	0.5	2.0	4.3	6.8
Copper	U	2455	mg/kg	0.50	32	33	5.8
Mercury	U	2455	mg/kg	0.05	0.11	0.11	< 0.05
Nickel	U	2455	mg/kg	0.50	16	18	3.1
Lead	U	2455	mg/kg	0.50	22	18	7.3
Selenium	U	2455	mg/kg	0.25	1.9	1.5	0.44
Vanadium	U	2455	mg/kg	0.5	3.4	5.9	9.6
Zinc	U	2455	mg/kg	0.50	58	52	10
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Organic Matter	U	2625	%	0.40	66	23	2.5
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C8-C10	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C10-C12	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C12-C16	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C16-C21	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C21-C35	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C8-C10	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C10-C12	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C12-C16	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C16-C21	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C21-C35	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0

Results - Soil

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services			**Chemtest Job No.:**		22-47963	22-47963	22-47963
Quotation No.: Q22-28967			**Chemtest Sample ID.:**		1564752	1564754	1564755
Order No.: 2001			Client Sample Ref.:		104	108	110
			Sample Location:		S1-BH116	S1-BH116	S1-BH116
			Sample Type:		SOIL	SOIL	SOIL
			Top Depth (m):		2.70	4.50	5.10
			Bottom Depth (m):		2.80	4.65	5.20
			Date Sampled:		13-Dec-2022	13-Dec-2022	13-Dec-2022
			Asbestos Lab:		DURHAM	DURHAM	
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	[B] < 5.0	[B] < 5.0	[B] < 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	[B] < 10	[B] < 10	[B] < 10
Benzene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Toluene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Ethylbenzene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
m & p-Xylene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
o-Xylene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Naphthalene	U	2800	mg/kg	0.10	1.4	0.85	0.35
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	2800	mg/kg	0.10	0.12	< 0.10	< 0.10
Fluorene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	2800	mg/kg	0.10	0.28	0.39	< 0.10
Anthracene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	2800	mg/kg	0.10	< 0.10	0.30	< 0.10
Pyrene	U	2800	mg/kg	0.10	< 0.10	0.28	< 0.10
Benzo[a]anthracene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10

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:
1564752	104		S1-BH116	13-Dec-2022	B	Amber Glass 250ml
1564752	104		S1-BH116	13-Dec-2022	B	Amber Glass 60ml
1564752	104		S1-BH116	13-Dec-2022	B	Plastic Tub 500g
1564754	108		S1-BH116	13-Dec-2022	B	Amber Glass 250ml
1564754	108		S1-BH116	13-Dec-2022	B	Amber Glass 60ml
1564754	108		S1-BH116	13-Dec-2022	B	Plastic Tub 500g
1564755	110		S1-BH116	13-Dec-2022	B	Amber Glass 250ml
1564755	110		S1-BH116	13-Dec-2022	B	Amber Glass 60ml
1564755	110		S1-BH116	13-Dec-2022	B	Plastic Tub 500g

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.
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.
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.
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil 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*	Dichloromethane extraction / GC-MS

Test Methods

SOP	Title	Parameters included	Method summary
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

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

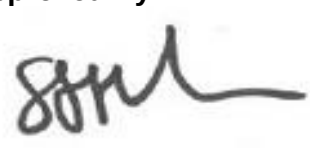
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	22-48189-1
Initial Date of Issue:	12-Jan-2023
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G22069 Global Centre of Rail Excellence

Quotation No.:		**Date Received:**	16-Dec-2022
Order No.:		**Date Instructed:**	22-Dec-2022
No. of Samples:	1		
Turnaround (Wkdays):	6	**Results Due:**	05-Jan-2023
Date Approved:	12-Jan-2023		

Approved By:



Details: Stuart Henderson, Technical Manager

Results - Soil

Project: G22069 Global Centre of Rail Excellence

Client: Jackson Geo Services			**Chemtest Job No.:**		22-48189
Quotation No.:			**Chemtest Sample ID.:**		1565530
Order No.:			Client Sample Ref.:		2
			Client Sample ID.:		#3554753346150002
			Sample Location:		S1-BH112
			Sample Type:		SOIL
			Top Depth (m):		0.50
			Bottom Depth (m):		0.60
			Date Sampled:		14-Dec-2022
			Asbestos Lab:		NEW-ASB
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
ACM Type	U	2192		N/A	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected
Moisture	N	2030	%	0.020	8.4
pH	U	2010		4.0	8.0
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	0.57
Sulphate (2:1 Water Soluble) as SO4 mg/l	U	2120	mg/l	10.000	96
Cyanide (Free)	U	2300	mg/kg	0.50	< 0.50
Cyanide (Total)	U	2300	mg/kg	0.50	< 0.50
Arsenic	U	2455	mg/kg	0.5	7.8
Cadmium	U	2455	mg/kg	0.10	0.19
Chromium	U	2455	mg/kg	0.5	3.8
Copper	U	2455	mg/kg	0.50	36
Mercury	U	2455	mg/kg	0.05	0.10
Nickel	U	2455	mg/kg	0.50	17
Lead	U	2455	mg/kg	0.50	24
Selenium	U	2455	mg/kg	0.25	1.7
Vanadium	U	2455	mg/kg	0.5	5.9
Zinc	U	2455	mg/kg	0.50	94
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50
Organic Matter	U	2625	%	0.40	41
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C8-C10	N	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C10-C12	N	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C12-C16	N	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C16-C21	N	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C21-C35	N	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C8-C10	N	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C10-C12	N	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C12-C16	N	2680	mg/kg	1.0	< 1.0

Results - Soil

Project: G22069 Global Centre of Rail Excellence

Client: Jackson Geo Services			**Chemtest Job No.:**		22-48189
Quotation No.:			**Chemtest Sample ID.:**		1565530
Order No.:			Client Sample Ref.:		2
			Client Sample ID.:		#3554753346150002
			Sample Location:		S1-BH112
			Sample Type:		SOIL
			Top Depth (m):		0.50
			Bottom Depth (m):		0.60
			Date Sampled:		14-Dec-2022
			Asbestos Lab:		NEW-ASB
Determinand	**Accred.**	**SOP**	**Units**	**LOD**	
Aromatic TPH >C16-C21	N	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C21-C35	N	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10
Benzene	U	2760	µg/kg	1.0	< 1.0
Toluene	U	2760	µg/kg	1.0	< 1.0
Ethylbenzene	U	2760	µg/kg	1.0	< 1.0
m & p-Xylene	U	2760	µg/kg	1.0	< 1.0
o-Xylene	U	2760	µg/kg	1.0	< 1.0
Naphthalene	U	2800	mg/kg	0.10	1.3
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10
Acenaphthene	U	2800	mg/kg	0.10	0.21
Fluorene	U	2800	mg/kg	0.10	0.15
Phenanthrene	U	2800	mg/kg	0.10	0.66
Anthracene	U	2800	mg/kg	0.10	0.11
Fluoranthene	U	2800	mg/kg	0.10	0.33
Pyrene	U	2800	mg/kg	0.10	0.20
Benzo[a]anthracene	U	2800	mg/kg	0.10	< 0.10
Chrysene	U	2800	mg/kg	0.10	< 0.10
Benzo[b]fluoranthene	U	2800	mg/kg	0.10	< 0.10
Benzo[k]fluoranthene	U	2800	mg/kg	0.10	< 0.10
Benzo[a]pyrene	U	2800	mg/kg	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2800	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene	U	2800	mg/kg	0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	3.0
Total Phenols	U	2920	mg/kg	0.10	< 0.10

Results - 2 Stage WAC

Project: G22069 Global Centre of Rail Excellence

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	22-48189								
Chemtest Sample ID:	1565530								
Sample Ref:	2								
Sample ID:	#3554753346150002						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Sample Location:	S1-BH112								
Top Depth(m):	0.50								
Bottom Depth(m):	0.60								
Sampling Date:	14-Dec-2022								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	U	%			24	3	5	6
Loss On Ignition	2610	U	%			4.0	--	--	10
Total BTEX	2760	U	mg/kg			< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	U	mg/kg			< 0.10	1	--	--
TPH Total WAC	2670	U	mg/kg			60	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			2.9	100	--	--
pH	2010	U				8.0	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			0.0050	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455	U	0.0005	0.0005	0.0010	0.0050	0.5	2	25
Barium	1455	U	0.057	0.022	0.11	0.26	20	100	300
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5
Chromium	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	70
Copper	1455	U	0.0009	< 0.0005	0.0019	0.0012	2	50	100
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2
Molybdenum	1455	U	0.0026	0.0022	0.0053	0.022	0.5	10	30
Nickel	1455	U	0.0005	< 0.0005	0.0011	0.0007	0.4	10	40
Lead	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	50
Antimony	1455	U	0.0009	0.0007	0.0018	0.0072	0.06	0.7	5
Selenium	1455	U	0.0038	0.0019	0.0075	0.021	0.1	0.5	7
Zinc	1455	U	< 0.003	< 0.003	< 0.003	< 0.003	4	50	200
Chloride	1220	U	< 1.0	< 1.0	< 10	< 10	800	15000	25000
Fluoride	1220	U	0.39	0.26	< 1.0	2.8	10	150	500
Sulphate	1220	U	55	8.7	110	150	1000	20000	50000
Total Dissolved Solids	1020	N	220	76	440	940	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	5.0	3.5	< 50	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	8.4

Leachate Test Information	
Leachant volume 1st extract/l	0.334
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.228

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity 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.
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).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
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.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	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	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)

Test Methods

SOP	Title	Parameters included	Method summary
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil 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*	Dichloromethane extraction / GC-MS
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

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
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

UKAS TESTING 2183

Final Report

Report No.:	22-48361-1
Initial Date of Issue:	10-Jan-2023
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G22069 Global Centre of Rail Excellence (GCRE)
Quotation No.:	Q22-28967
Order No.:	
No. of Samples:	2
Turnaround (Wkdays):	8
Date Approved:	10-Jan-2023
Approved By:	
Details:	Stuart Henderson, Technical Manager

Date Received:	19-Dec-2022
Date Instructed:	19-Dec-2022
Results Due:	04-Jan-2023

Results - Leachate

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services				**Chemtest Job No.:**		22-48361
Quotation No.: Q22-28967				**Chemtest Sample ID.:**		1566153
Order No.:				Client Sample Ref.:		102
				Sample Location:		S1-BH112
				Sample Type:		SOIL
				Top Depth (m):		1.50
				Bottom Depth (m):		1.60
				Date Sampled:		15-Dec-2022
Determinand	**Accred.**	**SOP**	**Type**	**Units**	**LOD**	
pH	U	1010	10:1		N/A	8.3
Sulphate	U	1220	10:1	mg/l	1.0	8.6
Cyanide (Total)	U	1300	10:1	mg/l	0.050	< 0.050
Cyanide (Free)	U	1300	10:1	mg/l	0.050	< 0.050
Arsenic (Dissolved)	U	1455	10:1	µg/l	0.20	0.22
Cadmium (Dissolved)	U	1455	10:1	µg/l	0.11	< 0.11
Chromium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Copper (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Mercury (Dissolved)	U	1455	10:1	µg/l	0.05	< 0.05
Nickel (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Lead (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Selenium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Vanadium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Zinc (Dissolved)	U	1455	10:1	µg/l	2.5	7.3
Chromium (Hexavalent)	U	1490	10:1	µg/l	20	< 20
Total Phenols	U	1920	10:1	mg/l	0.030	< 0.030

Results - Soil

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services			**Chemtest Job No.:**		22-48361	22-48361
Quotation No.: Q22-28967			**Chemtest Sample ID.:**		1566153	1566155
Order No.:			Client Sample Ref.:		102	106
			Sample Location:		S1-BH112	S1-BH112
			Sample Type:		SOIL	SOIL
			Top Depth (m):		1.50	3.70
			Bottom Depth (m):		1.60	3.80
			Date Sampled:		15-Dec-2022	15-Dec-2022
			Asbestos Lab:			COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
ACM Type	U	2192		N/A		-
Asbestos Identification	U	2192		N/A		No Asbestos Detected
Moisture	N	2030	%	0.020	9.5	24
pH	U	2010		4.0	7.1	6.5
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	< 0.40	0.93
Sulphate (2:1 Water Soluble) as SO4 mg/l	U	2120	mg/l	10.000	79	16
Cyanide (Free)	U	2300	mg/kg	0.50	< 0.50	< 0.50
Cyanide (Total)	U	2300	mg/kg	0.50	< 0.50	< 0.50
Arsenic	U	2455	mg/kg	0.5	8.8	15
Cadmium	U	2455	mg/kg	0.10	0.11	< 0.10
Chromium	U	2455	mg/kg	0.5	3.5	23
Copper	U	2455	mg/kg	0.50	38	27
Mercury	U	2455	mg/kg	0.05	0.10	< 0.05
Nickel	U	2455	mg/kg	0.50	27	13
Lead	U	2455	mg/kg	0.50	19	19
Selenium	U	2455	mg/kg	0.25	1.7	1.7
Vanadium	U	2455	mg/kg	0.5	5.2	43
Zinc	U	2455	mg/kg	0.50	47	44
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50
Organic Matter	U	2625	%	0.40	81	2.7
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	N	2680	mg/kg	1.0	< 1.0	< 1.0

Results - Soil

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services			**Chemtest Job No.:**		22-48361	22-48361
Quotation No.: Q22-28967			**Chemtest Sample ID.:**		1566153	1566155
Order No.:			Client Sample Ref.:		102	106
			Sample Location:		S1-BH112	S1-BH112
			Sample Type:		SOIL	SOIL
			Top Depth (m):		1.50	3.70
			Bottom Depth (m):		1.60	3.80
			Date Sampled:		15-Dec-2022	15-Dec-2022
			Asbestos Lab:			COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10
Benzene	U	2760	µg/kg	1.0	22	< 1.0
Toluene	U	2760	µg/kg	1.0	9.0	< 1.0
Ethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
m & p-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0
o-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0
Naphthalene	U	2800	mg/kg	0.10	0.42	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene	U	2800	mg/kg	0.10	0.17	< 0.10
Anthracene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Fluoranthene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Pyrene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Chrysene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0
Total Phenols	U	2920	mg/kg	0.10	< 0.10	< 0.10

Results - 2 Stage WAC

Project: G22069 Global Centre of Rail Excellence (GCRE)

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	22-48361								
Chemtest Sample ID:	1566155								
Sample Ref:	106								
Sample ID:									
Sample Location:	S1-BH112								
Top Depth(m):	3.70								
Bottom Depth(m):	3.80								
Sampling Date:	15-Dec-2022								
Determinand	**SOP**	**Accred.**	**Units**				**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon	2625	U	%			1.6	3	5	6
Loss On Ignition	2610	U	%			7.5	--	--	10
Total BTEX	2760	U	mg/kg			< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	U	mg/kg			< 0.10	1	--	--
TPH Total WAC	2670	U	mg/kg			< 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			< 2.0	100	--	--
pH	2010	U				6.5	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			0.0040	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455	U	0.0025	0.0009	0.0047	0.012	0.5	2	25
Barium	1455	U	0.073	0.047	0.14	0.50	20	100	300
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5
Chromium	1455	U	0.0027	0.0015	0.0051	0.016	0.5	10	70
Copper	1455	U	0.0073	0.0039	0.014	0.010	2	50	100
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2
Molybdenum	1455	U	0.0039	0.0024	0.0075	0.026	0.5	10	30
Nickel	1455	U	0.0084	0.0034	0.016	0.041	0.4	10	40
Lead	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	50
Antimony	1455	U	0.0006	< 0.0005	0.0012	0.0009	0.06	0.7	5
Selenium	1455	U	0.0098	0.0027	0.019	0.037	0.1	0.5	7
Zinc	1455	U	0.023	0.014	0.044	0.16	4	50	200
Chloride	1220	U	< 1.0	< 1.0	< 10	< 10	800	15000	25000
Fluoride	1220	U	0.59	0.19	1.1	2.5	10	150	500
Sulphate	1220	U	20	9.1	38	110	1000	20000	50000
Total Dissolved Solids	1020	N	120	65	240	720	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	37	4.2	72	89	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	24

Leachate Test Information	
Leachant volume 1st extract/l	0.294
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.249

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity 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.
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
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.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection

Test Methods

SOP	Title	Parameters included	Method summary
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	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	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil 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*	Dichloromethane extraction / GC-MS
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

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

Amended Report

Report No.:	22-48913-2		
Initial Date of Issue:	10-Jan-2023	**Date of Re-Issue:**	11-Jan-2023
Client	Jackson Geo Services		
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA		
Contact(s):	Adam Putt James Power		
Project	G22069 Global Centre of Rail Excellence (GCRE)		
Quotation No.:	Q22-28967	**Date Received:**	22-Dec-2022
Order No.:		**Date Instructed:**	04-Jan-2023
No. of Samples:	2		
Turnaround (Wkdays):	5	**Results Due:**	10-Jan-2023
Date Approved:	10-Jan-2023		
Approved By:			
Details:	Stuart Henderson, Technical Manager		

Results - Leachate

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services				**Chemtest Job No.:**		22-48913
Quotation No.: Q22-28967				**Chemtest Sample ID.:**		1568343
Order No.:				Client Sample Ref.:		3
				Client Sample ID.:		#2720128606400003
				Sample Location:		S1-BH106
				Sample Type:		SOIL
				Top Depth (m):		0.9
				Bottom Depth (m):		1.0
				Date Sampled:		20-Dec-2022
Determinand	**Accred.**	**SOP**	**Type**	**Units**	**LOD**	
pH	U	1010	10:1		N/A	8.9
Sulphate	U	1220	10:1	mg/l	1.0	6.6
Cyanide (Total)	U	1300	10:1	mg/l	0.050	< 0.050
Cyanide (Free)	U	1300	10:1	mg/l	0.050	< 0.050
Arsenic (Dissolved)	U	1455	10:1	µg/l	0.20	< 0.20
Cadmium (Dissolved)	U	1455	10:1	µg/l	0.11	< 0.11
Chromium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Copper (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Mercury (Dissolved)	U	1455	10:1	µg/l	0.05	< 0.05
Nickel (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Lead (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Selenium (Dissolved)	U	1455	10:1	µg/l	0.50	0.65
Vanadium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Zinc (Dissolved)	U	1455	10:1	µg/l	2.5	< 2.5
Chromium (Hexavalent)	U	1490	10:1	µg/l	20	< 20
Total Phenols	U	1920	10:1	mg/l	0.030	< 0.030

Results - Soil

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services			**Chemtest Job No.:**		22-48913	22-48913
Quotation No.: Q22-28967			**Chemtest Sample ID.:**		1568341	1568343
Order No.:			Client Sample Ref.:		1	3
			Client Sample ID.:		#2720128606400001	#2720128606400003
			Sample Location:		S1-BH106	S1-BH106
			Sample Type:		SOIL	SOIL
			Top Depth (m):		0.2	0.9
			Bottom Depth (m):		0.3	1.0
			Date Sampled:		20-Dec-2022	20-Dec-2022
			Asbestos Lab:		DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
ACM Type	U	2192		N/A	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	8.2	8.7
pH	U	2010		4.0	8.0	8.5
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	< 0.40	0.68
Sulphate (2:1 Water Soluble) as SO4 mg/l	U	2120	mg/l	10.000	71	58
Cyanide (Free)	U	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50
Cyanide (Total)	U	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50
Arsenic	U	2455	mg/kg	0.5	12	9.1
Cadmium	U	2455	mg/kg	0.10	0.36	0.20
Chromium	U	2455	mg/kg	0.5	7.1	6.5
Copper	U	2455	mg/kg	0.50	55	36
Mercury	U	2455	mg/kg	0.05	0.10	0.06
Nickel	U	2455	mg/kg	0.50	21	18
Lead	U	2455	mg/kg	0.50	33	23
Selenium	U	2455	mg/kg	0.25	1.7	1.1
Vanadium	U	2455	mg/kg	0.5	7.2	6.2
Zinc	U	2455	mg/kg	0.50	76	54
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50
Organic Matter	U	2625	%	0.40	86	48
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C8-C10	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C10-C12	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C12-C16	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C16-C21	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C21-C35	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	[B] < 5.0	[B] < 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C8-C10	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C10-C12	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C12-C16	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0

Results - Soil

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services			**Chemtest Job No.:**		22-48913	22-48913
Quotation No.: Q22-28967			**Chemtest Sample ID.:**		1568341	1568343
Order No.:			Client Sample Ref.:		1	3
			Client Sample ID.:		#2720128606400001	#2720128606400003
			Sample Location:		S1-BH106	S1-BH106
			Sample Type:		SOIL	SOIL
			Top Depth (m):		0.2	0.9
			Bottom Depth (m):		0.3	1.0
			Date Sampled:		20-Dec-2022	20-Dec-2022
			Asbestos Lab:		DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
Aromatic TPH >C16-C21	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C21-C35	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	[B] < 5.0	[B] < 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	[B] < 10	[B] < 10
Benzene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0
Toluene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0
Ethylbenzene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0
m & p-Xylene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0
o-Xylene	U	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0
Naphthalene	U	2800	mg/kg	0.10	1.8	2.0
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene	U	2800	mg/kg	0.10	0.35	0.27
Phenanthrene	U	2800	mg/kg	0.10	2.3	2.0
Anthracene	U	2800	mg/kg	0.10	0.37	0.42
Fluoranthene	U	2800	mg/kg	0.10	1.8	1.6
Pyrene	U	2800	mg/kg	0.10	1.4	1.1
Benzo[a]anthracene	U	2800	mg/kg	0.10	0.51	0.38
Chrysene	U	2800	mg/kg	0.10	0.89	0.72
Benzo[b]fluoranthene	U	2800	mg/kg	0.10	0.97	0.82
Benzo[k]fluoranthene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	10	9.3
Total Phenols	U	2920	mg/kg	0.10	< 0.10	< 0.10

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:
1568341	1	#2720128606400001	S1-BH106	20-Dec-2022	B	Amber Glass 250ml
1568341	1	#2720128606400001	S1-BH106	20-Dec-2022	B	Amber Glass 60ml
1568341	1	#2720128606400001	S1-BH106	20-Dec-2022	B	Plastic Tub 500g
1568343	3	#2720128606400003	S1-BH106	20-Dec-2022	B	Amber Glass 250ml
1568343	3	#2720128606400003	S1-BH106	20-Dec-2022	B	Amber Glass 60ml
1568343	3	#2720128606400003	S1-BH106	20-Dec-2022	B	Plastic Tub 500g

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.
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.
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.
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil 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*	Dichloromethane extraction / GC-MS

Test Methods

SOP	Title	Parameters included	Method summary
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

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
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	22-49095-2		
Initial Date of Issue:	10-Jan-2023	**Date of Re-Issue:**	10-Jan-2023
Client	Jackson Geo Services		
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA		
Contact(s):	Adam Putt James Power		
Project	G22069 Global Centre of Rail Excellence (GCRE)		
Quotation No.:	Q22-28967	**Date Received:**	23-Dec-2022
Order No.:		**Date Instructed:**	04-Jan-2023
No. of Samples:	3		
Turnaround (Wkdays):	5	**Results Due:**	10-Jan-2023
Date Approved:	10-Jan-2023		
Approved By:			
Details:	Stuart Henderson, Technical Manager		

Results - Leachate

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services				**Chemtest Job No.:**		22-49095
Quotation No.: Q22-28967				**Chemtest Sample ID.:**		1569171
Order No.:				Client Sample Ref.:		104
				Client Sample ID.:		#50765685155 30009
				Sample Location:		S1-BH106
				Sample Type:		SOIL
				Top Depth (m):		2.5
				Bottom Depth (m):		2.7
				Date Sampled:		21-Dec-2022
Determinand	**Accred.**	**SOP**	**Type**	**Units**	**LOD**	
pH	U	1010	10:1		N/A	8.8
Sulphate	U	1220	10:1	mg/l	1.0	9.7
Cyanide (Total)	U	1300	10:1	mg/l	0.050	< 0.050
Cyanide (Free)	U	1300	10:1	mg/l	0.050	< 0.050
Arsenic (Dissolved)	U	1455	10:1	µg/l	0.20	0.35
Cadmium (Dissolved)	U	1455	10:1	µg/l	0.11	< 0.11
Chromium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Copper (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Mercury (Dissolved)	U	1455	10:1	µg/l	0.05	< 0.05
Nickel (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Lead (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Selenium (Dissolved)	U	1455	10:1	µg/l	0.50	1.0
Vanadium (Dissolved)	U	1455	10:1	µg/l	0.50	< 0.50
Zinc (Dissolved)	U	1455	10:1	µg/l	2.5	2.6
Chromium (Hexavalent)	U	1490	10:1	µg/l	20	< 20
Total Phenols	U	1920	10:1	mg/l	0.030	< 0.030

Results - Soil

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services			**Chemtest Job No.:**		22-49095	22-49095	22-49095
Quotation No.: Q22-28967			**Chemtest Sample ID.:**		1569171	1569174	1569176
Order No.:			Client Sample Ref.:		104	110	113
			Client Sample ID.:		#5076568515530009	#5076568515530015	#5076568515530018
			Sample Location:		S1-BH106	S1-BH106	S1-BH106
			Sample Type:		SOIL	SOIL	SOIL
			Top Depth (m):		2.5	5.5	8.5
			Bottom Depth (m):		2.7	5.7	8.7
			Date Sampled:		21-Dec-2022	21-Dec-2022	21-Dec-2022
			Asbestos Lab:		DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
ACM Type	U	2192		N/A	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	13	13	13
pH	U	2010		4.0	7.3	8.1	8.0
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	4.2	0.48	0.56
Sulphate (2:1 Water Soluble) as SO4 mg/l	U	2120	mg/l	10.000	1200	860	1000
Cyanide (Free)	U	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	U	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Arsenic	U	2455	mg/kg	0.5	99	8.3	9.9
Cadmium	U	2455	mg/kg	0.10	14	0.25	1.5
Chromium	U	2455	mg/kg	0.5	440	5.9	12
Copper	U	2455	mg/kg	0.50	130	47	50
Mercury	U	2455	mg/kg	0.05	1.2	0.11	0.15
Nickel	U	2455	mg/kg	0.50	21	18	24
Lead	U	2455	mg/kg	0.50	3300	60	100
Selenium	U	2455	mg/kg	0.25	1.6	2.2	2.2
Vanadium	U	2455	mg/kg	0.5	44	5.4	6.9
Zinc	U	2455	mg/kg	0.50	16000	140	350
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Organic Matter	U	2625	%	0.40	12	76	93
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: G22069 Global Centre of Rail Excellence (GCRE)

Client: Jackson Geo Services			**Chemtest Job No.:**		22-49095	22-49095	22-49095
Quotation No.: Q22-28967			**Chemtest Sample ID.:**		1569171	1569174	1569176
Order No.:			Client Sample Ref.:		104	110	113
			Client Sample ID.:		#5076568515530009	#5076568515530015	#5076568515530018
			Sample Location:		S1-BH106	S1-BH106	S1-BH106
			Sample Type:		SOIL	SOIL	SOIL
			Top Depth (m):		2.5	5.5	8.5
			Bottom Depth (m):		2.7	5.7	8.7
			Date Sampled:		21-Dec-2022	21-Dec-2022	21-Dec-2022
			Asbestos Lab:		DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
Aromatic TPH >C16-C21	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10
Benzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Toluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
o-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Naphthalene	U	2800	mg/kg	0.10	0.24	3.2	6.0
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	2800	mg/kg	0.10	< 0.10	0.40	0.84
Fluorene	U	2800	mg/kg	0.10	< 0.10	0.33	0.39
Phenanthrene	U	2800	mg/kg	0.10	< 0.10	1.1	1.5
Anthracene	U	2800	mg/kg	0.10	< 0.10	0.26	0.30
Fluoranthene	U	2800	mg/kg	0.10	0.28	0.59	0.57
Pyrene	U	2800	mg/kg	0.10	0.18	0.38	0.35
Benzo[a]anthracene	U	2800	mg/kg	0.10	< 0.10	0.13	< 0.10
Chrysene	U	2800	mg/kg	0.10	< 0.10	0.23	0.19
Benzo[b]fluoranthene	U	2800	mg/kg	0.10	< 0.10	0.46	0.37
Benzo[k]fluoranthene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	7.1	11
Total Phenols	U	2920	mg/kg	0.10	< 0.10	0.20	< 0.10

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.
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.
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.
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil 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*	Dichloromethane extraction / GC-MS

Test Methods

SOP	Title	Parameters included	Method summary
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

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.:	23-00082-1
Initial Date of Issue:	12-Jan-2023
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G22069 Global Centre of Rail Excellence (GCRE)
Quotation No.:	Q22-28967
Order No.:	
No. of Samples:	1
Turnaround (Wkdays):	7
Date Approved:	12-Jan-2023
Approved By:	
Details:	Stuart Henderson, Technical Manager

Date Received:	04-Jan-2023
Date Instructed:	04-Jan-2023
Results Due:	12-Jan-2023

Results - 2 Stage WAC

Project: G22069 Global Centre of Rail Excellence (GCRE)

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	23-00082								
Chemtest Sample ID:	1569930								
Sample Ref:	1								
Sample ID:									
Sample Location:	S1-BH106								
Top Depth(m):	0.20								
Bottom Depth(m):	0.30								
Sampling Date:	20-Dec-2022								
Determinand	**SOP**	**Accred.**	**Units**				**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon	2625	M	%			63	3	5	6
Loss On Ignition	2610	M	%			25	--	--	10
Total BTEX	2760	M	mg/kg			[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg			< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg			[B] 54	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			14	100	--	--
pH	2010	M				8.0	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			0.028	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455	U	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.5	2	25
Barium	1455	U	0.064	0.013	0.13	0.20	20	100	300
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5
Chromium	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	70
Copper	1455	U	0.0007	0.0007	0.0013	0.0009	2	50	100
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2
Molybdenum	1455	U	0.015	0.0048	0.030	0.062	0.5	10	30
Nickel	1455	U	0.0007	< 0.0005	0.0013	0.0009	0.4	10	40
Lead	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	50
Antimony	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.06	0.7	5
Selenium	1455	U	0.0013	0.0008	0.0026	0.0084	0.1	0.5	7
Zinc	1455	U	< 0.003	< 0.003	< 0.003	< 0.003	4	50	200
Chloride	1220	U	2.0	< 1.0	< 10	< 10	800	15000	25000
Fluoride	1220	U	0.37	0.18	< 1.0	2.1	10	150	500
Sulphate	1220	U	18	1.6	36	39	1000	20000	50000
Total Dissolved Solids	1020	N	230	67	460	900	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	3.0	3.0	< 50	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	10

Leachate Test Information	
Leachant volume 1st extract/l	0.330
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.249

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

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:
1569930	1		S1-BH106	20-Dec-2022	B	Amber Glass 250ml
1569930	1		S1-BH106	20-Dec-2022	B	Amber Glass 60ml
1569930	1		S1-BH106	20-Dec-2022	B	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity 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.
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).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
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.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	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	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

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
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-00084-1
Initial Date of Issue:	16-Jan-2023
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G22069 Global Centre of Rail Excellence (GCRE)
Quotation No.:	Q22-28967
Order No.:	
No. of Samples:	2
Turnaround (Wkdays):	7
Date Approved:	16-Jan-2023
Approved By:	
Details:	Stuart Henderson, Technical Manager

Date Received:	04-Jan-2023
Date Instructed:	04-Jan-2023
Results Due:	12-Jan-2023

Results - 2 Stage WAC

Project: G22069 Global Centre of Rail Excellence (GCRE)

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	23-00084								
Chemtest Sample ID:	1569932								
Sample Ref:	110								
Sample ID:	#5076568515530015						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Sample Location:	S1-BH106								
Top Depth(m):	5.50								
Bottom Depth(m):	5.70								
Sampling Date:	21-Dec-2022								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	M	%			30	3	5	6
Loss On Ignition	2610	M	%			13	--	--	10
Total BTEX	2760	M	mg/kg			< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg			< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg			< 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			2.1	100	--	--
pH	2010	M				8.1	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			0.023	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455	U	0.0006	0.0004	0.0011	0.0042	0.5	2	25
Barium	1455	U	0.062	0.030	0.12	0.34	20	100	300
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5
Chromium	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	70
Copper	1455	U	< 0.0005	0.0006	< 0.0005	< 0.0005	2	50	100
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2
Molybdenum	1455	U	0.021	0.0059	0.042	0.078	0.5	10	30
Nickel	1455	U	0.0022	< 0.0005	0.0045	0.0030	0.4	10	40
Lead	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	50
Antimony	1455	U	0.0012	< 0.0005	0.0024	0.0016	0.06	0.7	5
Selenium	1455	U	0.0011	0.0009	0.0022	0.0089	0.1	0.5	7
Zinc	1455	U	< 0.003	< 0.003	< 0.003	< 0.003	4	50	200
Chloride	1220	U	1.2	< 1.0	< 10	< 10	800	15000	25000
Fluoride	1220	U	0.37	0.19	< 1.0	2.1	10	150	500
Sulphate	1220	U	64	8.8	130	160	1000	20000	50000
Total Dissolved Solids	1020	N	220	80	430	980	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	3.1	3.0	< 50	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	12

Leachate Test Information	
Leachant volume 1st extract/l	0.326
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.230

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - 2 Stage WAC

Project: G22069 Global Centre of Rail Excellence (GCRE)

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	23-00084								
Chemtest Sample ID:	1569933								
Sample Ref:	113								
Sample ID:	#5076568515530018						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Sample Location:	S1-BH106								
Top Depth(m):	8.50								
Bottom Depth(m):	8.70								
Sampling Date:	21-Dec-2022								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	M	%			42	3	5	6
Loss On Ignition	2610	M	%			24	--	--	10
Total BTEX	2760	M	mg/kg			< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg			< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg			99	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			10	100	--	--
pH	2010	M				7.9	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			0.010	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455	U	0.0004	0.0003	0.0008	0.0033	0.5	2	25
Barium	1455	U	0.027	0.024	0.054	0.24	20	100	300
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5
Chromium	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	70
Copper	1455	U	0.0007	0.0005	0.0013	0.0008	2	50	100
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2
Molybdenum	1455	U	0.011	0.0036	0.022	0.046	0.5	10	30
Nickel	1455	U	0.0056	0.0005	0.011	0.012	0.4	10	40
Lead	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	50
Antimony	1455	U	0.0012	0.0007	0.0024	0.0073	0.06	0.7	5
Selenium	1455	U	0.0036	0.0019	0.0070	0.021	0.1	0.5	7
Zinc	1455	U	< 0.003	0.003	< 0.003	0.028	4	50	200
Chloride	1220	U	< 1.0	< 1.0	< 10	< 10	800	15000	25000
Fluoride	1220	U	0.19	0.15	< 1.0	1.5	10	150	500
Sulphate	1220	U	540	54	1100	1200	1000	20000	50000
Total Dissolved Solids	1020	N	180	120	360	1300	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	3.3	< 2.5	< 50	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	17

Leachate Test Information	
Leachant volume 1st extract/l	0.315
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.226

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity 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.
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).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
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.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	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	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

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
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	23-00188-5		
Initial Date of Issue:	13-Jan-2023	**Date of Re-Issue:**	16-Jan-2023
Client	Jackson Geo Services		
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA		
Contact(s):	Adam Putt James Power		
Project	G22069 Global Centre of Rail Excellence (GCRE)		
Quotation No.:	Q22-28967	**Date Received:**	05-Jan-2023
Order No.:		**Date Instructed:**	05-Jan-2023
No. of Samples:	2		
Turnaround (Wkdays):	7	**Results Due:**	13-Jan-2023
Date Approved:	13-Jan-2023		
Approved By:			
Details:	Stuart Henderson, Technical Manager		

Results - 2 Stage WAC

Project: G22069 Global Centre of Rail Excellence (GCRE)

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	23-00188								
Chemtest Sample ID:	1570332								
Sample Ref:	5								
Sample ID:	#6101627161760005						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Sample Location:	S1-BH101								
Top Depth(m):	1.00								
Bottom Depth(m):	1.10								
Sampling Date:	09-Dec-2022								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	M	%			16	3	5	6
Loss On Ignition	2610	M	%			18	--	--	10
Total BTEX	2760	M	mg/kg			[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg			< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg			[B] 63	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			< 2.0	100	--	--
pH	2010	M				8.3	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			< 0.0020	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455	U	0.0005	0.0004	0.0011	0.0045	0.5	2	25
Barium	1455	U	0.038	0.022	0.076	0.23	20	100	300
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5
Chromium	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	70
Copper	1455	U	0.0013	0.0009	0.0026	0.0012	2	50	100
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2
Molybdenum	1455	U	0.013	0.0043	0.026	0.051	0.5	10	30
Nickel	1455	U	0.0006	< 0.0005	0.0012	0.0006	0.4	10	40
Lead	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	50
Antimony	1455	U	0.0009	0.0006	0.0018	0.0062	0.06	0.7	5
Selenium	1455	U	0.0041	0.0013	0.0082	0.016	0.1	0.5	7
Zinc	1455	U	0.005	< 0.003	0.011	0.005	4	50	200
Chloride	1220	U	2.6	< 1.0	< 10	< 10	800	15000	25000
Fluoride	1220	U	0.64	0.34	1.3	3.7	10	150	500
Sulphate	1220	U	69	19	140	240	1000	20000	50000
Total Dissolved Solids	1020	N	220	81	430	930	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	2.8	3.2	< 50	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	11

Leachate Test Information	
Leachant volume 1st extract/l	0.328
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.158

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - 2 Stage WAC

Project: G22069 Global Centre of Rail Excellence (GCRE)

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	23-00188								
Chemtest Sample ID:	1570333								
Sample Ref:	111								
Sample ID:	#6503151476610022						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Sample Location:	S1-BH109								
Top Depth(m):	6.70								
Bottom Depth(m):	6.90								
Sampling Date:	08-Dec-2022								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	M	%			36	3	5	6
Loss On Ignition	2610	M	%			18	--	--	10
Total BTEX	2760	M	mg/kg			[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg			< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg			[B] 27	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			3.7	100	--	--
pH	2010	M				8.1	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			< 0.0020	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455	U	0.0010	0.0005	0.0019	0.0056	0.5	2	25
Barium	1455	U	0.022	0.016	0.044	0.16	20	100	300
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5
Chromium	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	70
Copper	1455	U	< 0.0005	0.0009	< 0.0005	< 0.0005	2	50	100
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2
Molybdenum	1455	U	0.0008	0.0008	0.0015	0.0076	0.5	10	30
Nickel	1455	U	0.0019	0.0007	0.0038	0.0074	0.4	10	40
Lead	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	50
Antimony	1455	U	0.0040	0.0012	0.0079	0.014	0.06	0.7	5
Selenium	1455	U	0.0080	0.0023	0.016	0.026	0.1	0.5	7
Zinc	1455	U	0.004	< 0.003	0.009	0.003	4	50	200
Chloride	1220	U	< 1.0	< 1.0	< 10	< 10	800	15000	25000
Fluoride	1220	U	0.19	0.16	< 1.0	1.6	10	150	500
Sulphate	1220	U	95	18	190	230	1000	20000	50000
Total Dissolved Solids	1020	N	180	180	360	1800	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	3.9	2.6	< 50	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	15

Leachate Test Information	
Leachant volume 1st extract/l	0.318
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.111

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

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:
1570332	5	#6101627161760005	S1-BH101	09-Dec-2022	B	Amber Glass 250ml
1570332	5	#6101627161760005	S1-BH101	09-Dec-2022	B	Amber Glass 60ml
1570332	5	#6101627161760005	S1-BH101	09-Dec-2022	B	Plastic Tub 500g
1570333	111	#6503151476610022	S1-BH109	08-Dec-2022	B	Amber Glass 250ml
1570333	111	#6503151476610022	S1-BH109	08-Dec-2022	B	Amber Glass 60ml
1570333	111	#6503151476610022	S1-BH109	08-Dec-2022	B	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity 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.
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).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
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.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	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	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

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
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-00189-1
Initial Date of Issue:	13-Jan-2023
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G22069 Global Centre of Rail Excellence (GCRE)
Quotation No.:	Q22-28967
Order No.:	
No. of Samples:	1
Turnaround (Wkdays):	7
Date Approved:	13-Jan-2023
Approved By:	
Details:	Stuart Henderson, Technical Manager

Date Received:	05-Jan-2023
Date Instructed:	05-Jan-2023
Results Due:	13-Jan-2023

Results - 2 Stage WAC

Project: G22069 Global Centre of Rail Excellence (GCRE)

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	23-00189								
Chemtest Sample ID:	1570334								
Sample Ref:	110								
Sample ID:	#3552507438480021						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Sample Location:	S1-BH116								
Top Depth(m):	5.10								
Bottom Depth(m):	5.20								
Sampling Date:	12-Dec-2022								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	M	%			1.4	3	5	6
Loss On Ignition	2610	M	%			7.1	--	--	10
Total BTEX	2760	M	mg/kg			[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg			< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg			[B] < 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			< 2.0	100	--	--
pH	2010	M				6.8	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			< 0.0020	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455	U	0.014	0.0087	0.027	0.091	0.5	2	25
Barium	1455	U	0.006	0.006	0.011	0.064	20	100	300
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5
Chromium	1455	U	0.0016	0.0032	0.0031	0.031	0.5	10	70
Copper	1455	U	0.0054	0.0014	0.011	0.0043	2	50	100
Mercury	1455	U	0.00006	< 0.00005	0.00012	< 0.00005	0.01	0.2	2
Molybdenum	1455	U	0.0038	0.0008	0.0074	0.011	0.5	10	30
Nickel	1455	U	0.0026	0.0020	0.0050	0.020	0.4	10	40
Lead	1455	U	0.0039	0.0017	0.0076	0.019	0.5	10	50
Antimony	1455	U	0.012	0.0005	0.023	0.014	0.06	0.7	5
Selenium	1455	U	0.0021	0.0014	0.0041	0.014	0.1	0.5	7
Zinc	1455	U	0.005	< 0.003	0.010	0.004	4	50	200
Chloride	1220	U	5.8	2.1	11	24	800	15000	25000
Fluoride	1220	U	0.37	0.23	< 1.0	2.4	10	150	500
Sulphate	1220	U	39	11	76	130	1000	20000	50000
Total Dissolved Solids	1020	N	120	120	230	1200	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	11	21	< 50	200	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	20

Leachate Test Information	
Leachant volume 1st extract/l	0.306
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.138

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

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:
1570334	110	#3552507438480021	S1-BH116	12-Dec-2022	B	Amber Glass 250ml
1570334	110	#3552507438480021	S1-BH116	12-Dec-2022	B	Amber Glass 60ml
1570334	110	#3552507438480021	S1-BH116	12-Dec-2022	B	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity 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.
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).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
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.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	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	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

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
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-00268-1
Initial Date of Issue:	13-Jan-2023
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G22069 Global Centre of Rial Excellence (GCRE)
Quotation No.:	Q22-28967
Order No.:	2001
No. of Samples:	1
Turnaround (Wkdays):	7
Date Approved:	13-Jan-2023
Approved By:	
Details:	Stuart Henderson, Technical Manager

Date Received:	06-Jan-2023
Date Instructed:	06-Jan-2023
Results Due:	16-Jan-2023

Results - 2 Stage WAC

Project: G22069 Global Centre of Rial Excellence (GCRE)

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	23-00268								
Chemtest Sample ID:	1570591								
Sample Ref:	5								
Sample ID:	#7112198638300005						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Sample Location:	S1-BH116								
Top Depth(m):	0.90								
Bottom Depth(m):	1.00								
Sampling Date:	09-Dec-2022								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	M	%			11	3	5	6
Loss On Ignition	2610	M	%			16	--	--	10
Total BTEX	2760	M	mg/kg			[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg			< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg			[B] < 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			< 2.0	100	--	--
pH	2010	M				8.9	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			0.0050	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455	U	0.0005	0.0004	0.0009	0.0037	0.5	2	25
Barium	1455	U	0.043	0.015	0.085	0.18	20	100	300
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5
Chromium	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	70
Copper	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	2	50	100
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2
Molybdenum	1455	U	0.0029	0.0035	0.0058	0.034	0.5	10	30
Nickel	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.4	10	40
Lead	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	50
Antimony	1455	U	0.0009	0.0005	0.0018	0.0055	0.06	0.7	5
Selenium	1455	U	0.0056	0.0015	0.011	0.020	0.1	0.5	7
Zinc	1455	U	< 0.003	< 0.003	< 0.003	< 0.003	4	50	200
Chloride	1220	U	2.0	< 1.0	< 10	< 10	800	15000	25000
Fluoride	1220	U	0.47	0.25	< 1.0	2.8	10	150	500
Sulphate	1220	U	27	4.3	54	69	1000	20000	50000
Total Dissolved Solids	1020	N	130	66	270	730	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	2.7	2.9	< 50	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	6.1

Leachate Test Information	
Leachant volume 1st extract/l	0.339
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.201

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

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:
1570591	5	#7112198638300005	S1-BH116	09-Dec-2022	B	Amber Glass 250ml
1570591	5	#7112198638300005	S1-BH116	09-Dec-2022	B	Amber Glass 60ml
1570591	5	#7112198638300005	S1-BH116	09-Dec-2022	B	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity 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.
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).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
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.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	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	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

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
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	23-00270-1
Initial Date of Issue:	13-Jan-2023
Client	Jackson Geo Services
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA
Contact(s):	Adam Putt James Power
Project	G22069 Global Centre of Rail Excellence (GCRE)
Quotation No.:	Q22-28967
Order No.:	2001
No. of Samples:	2
Turnaround (Wkdays):	7
Date Approved:	13-Jan-2023
Approved By:	
Details:	Stuart Henderson, Technical Manager

Date Received:	06-Jan-2023
Date Instructed:	06-Jan-2023
Results Due:	16-Jan-2023

Results - 2 Stage WAC

Project: G22069 Global Centre of Rail Excellence (GCRE)

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	23-00270								
Chemtest Sample ID:	1570596								
Sample Ref:	105								
Sample ID:	#5067491743270025						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Sample Location:	S1-BH101								
Top Depth(m):	4.50								
Bottom Depth(m):	4.70								
Sampling Date:	13-Dec-2022								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	M	%			10	3	5	6
Loss On Ignition	2610	M	%			14	--	--	10
Total BTEX	2760	M	mg/kg			[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg			< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg			[B] < 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			< 2.0	100	--	--
pH	2010	M				8.4	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			< 0.0020	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455	U	0.0005	0.0004	0.0010	0.0042	0.5	2	25
Barium	1455	U	0.017	0.010	0.034	0.10	20	100	300
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5
Chromium	1455	U	< 0.0005	0.0007	< 0.0005	0.0059	0.5	10	70
Copper	1455	U	< 0.0005	0.0007	< 0.0005	< 0.0005	2	50	100
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2
Molybdenum	1455	U	0.0059	0.0038	0.012	0.040	0.5	10	30
Nickel	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.4	10	40
Lead	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	50
Antimony	1455	U	0.0014	0.0007	0.0027	0.0072	0.06	0.7	5
Selenium	1455	U	0.0049	0.0012	0.0097	0.015	0.1	0.5	7
Zinc	1455	U	< 0.003	< 0.003	< 0.003	< 0.003	4	50	200
Chloride	1220	U	< 1.0	< 1.0	< 10	< 10	800	15000	25000
Fluoride	1220	U	0.44	0.17	< 1.0	1.9	10	150	500
Sulphate	1220	U	110	17	210	250	1000	20000	50000
Total Dissolved Solids	1020	N	230	50	450	650	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	3.8	4.7	< 50	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	5.2

Leachate Test Information	
Leachant volume 1st extract/l	0.340
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.156

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - 2 Stage WAC

Project: G22069 Global Centre of Rail Excellence (GCRE)

							Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	23-00270								
Chemtest Sample ID:	1570597								
Sample Ref:	113								
Sample ID:	#5067491743270033						**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Sample Location:	S1-BH101								
Top Depth(m):	9.50								
Bottom Depth(m):	9.70								
Sampling Date:	13-Dec-2022								
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	M	%			16	3	5	6
Loss On Ignition	2610	M	%			18	--	--	10
Total BTEX	2760	M	mg/kg			[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg			< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg			[B] < 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg			13	100	--	--
pH	2010	M				7.8	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			< 0.0020	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative mg/kg 10:1**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455	U	0.0012	0.0007	0.0025	0.0080	0.5	2	25
Barium	1455	U	0.035	0.018	0.069	0.19	20	100	300
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5
Chromium	1455	U	0.0007	< 0.0005	0.0015	0.0007	0.5	10	70
Copper	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	2	50	100
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2
Molybdenum	1455	U	0.012	0.0051	0.025	0.059	0.5	10	30
Nickel	1455	U	< 0.0005	0.0005	< 0.0005	0.0047	0.4	10	40
Lead	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	50
Antimony	1455	U	0.0041	0.0021	0.0081	0.023	0.06	0.7	5
Selenium	1455	U	0.0097	0.0024	0.019	0.031	0.1	0.5	7
Zinc	1455	U	< 0.003	< 0.003	< 0.003	< 0.003	4	50	200
Chloride	1220	U	< 1.0	< 1.0	< 10	< 10	800	15000	25000
Fluoride	1220	U	0.36	0.17	< 1.0	1.9	10	150	500
Sulphate	1220	U	67	13	130	190	1000	20000	50000
Total Dissolved Solids	1020	N	210	65	420	800	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	3.4	3.9	< 50	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	7.6

Leachate Test Information	
Leachant volume 1st extract/l	0.336
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.177

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

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:
1570596	105	#506749174327002 5	S1-BH101	13-Dec-2022	B	Amber Glass 250ml
1570596	105	#506749174327002 5	S1-BH101	13-Dec-2022	B	Amber Glass 60ml
1570596	105	#506749174327002 5	S1-BH101	13-Dec-2022	B	Plastic Tub 500g
1570597	113	#506749174327003 3	S1-BH101	13-Dec-2022	B	Amber Glass 250ml
1570597	113	#506749174327003 3	S1-BH101	13-Dec-2022	B	Amber Glass 60ml
1570597	113	#506749174327003 3	S1-BH101	13-Dec-2022	B	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity 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.
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).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
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.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	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	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

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

Appendix G2: Table 1 Groundwater Monitoring Results Summary

Borehole ID	Easting	Northing	Elevation (m AOD)	Screened Horizon(m bgl)	Geology	Date	Water Level (m AOD)	Water Level (m bgl)	NAPL Thickness (m)
S1-BH101	284925.38	210692.01	241.16	11.0-14.0	Made Ground	20/12/2022	230.60	10.56	0.00
						21/12/2022	230.62	10.54	0.00
						22/12/2022	230.64	10.52	0.00
						09/01/2023	230.72	10.44	0.00
						31/01/2023	230.50	10.66	0.00
						14/02/2023	230.50	10.66	0.00
S1-BH102	284544.49	210695.4	230.73	6.0-9.0	South Wales Coal Measures Formation	21/11/2022	230.09	0.64	0.00
						22/11/2022	230.05	0.68	0.00
						23/11/2022	230.25	0.48	0.00
						24/11/2022	230.20	0.53	0.00
						25/11/2022	230.12	0.61	0.00
						28/11/2022	230.08	0.65	0.00
						02/12/2022	230.04	0.69	0.00
						05/12/2022	230.08	0.65	0.00
						12/12/2022	230.08	0.65	0.00
						13/12/2022	230.04	0.69	0.00
						14/12/2022	230.04	0.69	0.00
						15/12/2022	230.09	0.64	0.00
						16/12/2022	230.09	0.64	0.00
						20/12/2022	230.07	0.66	0.00
						22/12/2022	230.10	0.63	0.00
						09/01/2023	230.23	0.50	0.00
						24/01/2023	230.05	0.68	0.00
						31/01/2023	230.09	0.64	0.00
						01/02/2023	230.09	0.64	0.00
						13/02/2023	230.05	0.68	0.00

Appendix G2: Table 1 Groundwater Monitoring Results Summary

Borehole ID	Easting	Northing	Elevation (m AOD)	Screened Horizon(m bgl)	Geology	Date	Water Level (m AOD)	Water Level (m bgl)	NAPL Thickness (m)
S1-BH103	284603.15	210646.48	234.33	2.0-5.5	Made Ground	12/12/2022	230.91	3.42	0.00
						13/12/2022	230.91	3.42	0.00
						14/12/2022	230.91	3.42	0.00
						16/12/2022	230.93	3.40	0.00
						20/12/2022	231.19	3.14	0.00
						22/12/2022	231.21	3.12	0.00
						09/01/2023	231.48	2.85	0.00
						25/01/2023	231.08	3.25	0.00
						31/01/2023	231.03	3.30	0.00
						02/02/2023	231.03	3.30	0.00
						14/02/2023	230.93	3.40	0.00
S1-BH105	284718.99	210649.88	236.49	11.0-15.0	South Wales Coal Measures Formation	12/12/2022	230.04	6.45	0.00
						13/12/2022	227.65	8.84	0.00
						14/12/2022	227.66	8.83	0.00
						15/12/2022	229.98	6.51	0.00
						16/12/2022	229.99	6.50	0.00
						20/12/2022	230.09	6.40	0.00
						22/12/2022	230.11	6.38	0.00
						09/01/2023	230.19	6.30	0.00
						16/01/2023	230.21	6.28	0.00
						31/01/2023	230.07	6.42	0.00
						01/02/2023	230.07	6.42	0.00
						14/02/2023	230.03	6.46	0.00

Appendix G2: Table 1 Groundwater Monitoring Results Summary

Borehole ID	Easting	Northing	Elevation (m AOD)	Screened Horizon(m bgl)	Geology	Date	Water Level (m AOD)	Water Level (m bgl)	NAPL Thickness (m)
S1-BH108	284415.11	210631.95	231.95	13.0-15.5	South Wales Coal Measures Formation	25/11/2022	230.17	1.78	0.00
						28/11/2022	230.55	1.40	0.00
						05/12/2022	230.11	1.84	0.00
						07/12/2022	230.16	1.79	0.00
						12/12/2022	229.72	2.23	0.00
						13/12/2022	229.52	2.43	0.00
						14/12/2022	229.51	2.44	0.00
						15/12/2022	229.48	2.47	0.00
						16/12/2022	229.46	2.49	0.00
						20/12/2022	229.72	2.23	0.00
						22/12/2022	229.70	2.25	0.00
						09/01/2023	230.76	1.19	0.00
						16/01/2023	230.77	1.18	0.00
						31/01/2023	229.82	2.13	0.00
S1-BH112 (D	284882.07	210599.97	237.94	8.0-15.0	South Wales Coal Measures Formation	20/12/2022	228.20	9.74	0.00
						21/12/2022	228.32	9.62	0.00
						23/12/2022	228.32	9.62	0.00
						09/01/2023	229.07	8.87	0.00
						02/02/2023	227.96	9.98	0.00
						14/02/2023	227.81	10.13	0.00
S1-BH112 (S	284882.07	210599.97	237.94	1.0-2.5	Made Ground	20/12/2022	235.85	2.09	0.00
						21/12/2022	235.69	2.25	0.00
						22/12/2022	235.86	2.08	0.00
						09/01/2023	235.53	2.41	0.00
						02/02/2023	234.79	3.15	0.00
						14/02/2023	234.74	3.20	0.00

Appendix G2: Table 1 Groundwater Monitoring Results Summary

Borehole ID	Easting	Northing	Elevation (m AOD)	Screened Horizon(m bgl)	Geology	Date	Water Level (m AOD)	Water Level (m bgl)	NAPL Thickness (m)
S1-BH113	284799.5	210645.61	236.95	3-5.5	Made Ground	25/11/2022	232.78	4.17	0.00
						28/11/2022	232.85	4.10	0.00
						02/12/2022	232.58	4.37	0.00
						05/12/2022	232.40	4.55	0.00
						12/12/2022	232.43	4.52	0.00
						13/12/2022	232.25	4.70	0.00
						14/12/2022	232.25	4.70	0.00
						15/12/2022	232.24	4.71	0.00
						16/12/2022	232.15	4.80	0.00
						20/12/2022	232.82	4.13	0.00
						22/12/2022	232.84	4.11	0.00
						09/01/2023	233.26	3.69	0.00
						16/01/2023	233.09	3.86	0.00
						31/01/2023	232.29	4.66	0.00
						01/02/2023	232.29	4.66	0.00
						14/02/2023		Dry	0.00

Appendix G2: Table 1 Groundwater Monitoring Results Summary

Borehole ID	Easting	Northing	Elevation (m AOD)	Screened Horizon(m bgl)	Geology	Date	Water Level (m AOD)	Water Level (m bgl)	NAPL Thickness (m)
S1-BH121	284475.72	210703	230.88	2.0-3.50	Peat	15/11/2022	230.36	0.52	0.00
						16/11/2022	230.45	0.43	0.00
						17/11/2022	230.35	0.53	0.00
						21/11/2022	230.44	0.44	0.00
						22/11/2022	230.42	0.46	0.00
						23/11/2022	230.44	0.44	0.00
						24/11/2022	230.41	0.47	0.00
						25/11/2022	230.40	0.48	0.00
						28/11/2022	230.45	0.43	0.00
						02/12/2022	230.23	0.65	0.00
						05/12/2022	230.17	0.71	0.00
						12/12/2022	230.18	0.70	0.00
						13/12/2022	230.13	0.75	0.00
						14/12/2022	230.13	0.75	0.00
						15/12/2022	230.16	0.72	0.00
						16/12/2022	230.12	0.76	0.00
						20/12/2022	230.42	0.46	0.00
						23/12/2022	230.42	0.46	0.00
						09/01/2023	230.43	0.45	0.00
						17/01/2023	230.23	0.65	0.00
						24/01/2023	230.25	0.63	0.00
						31/01/2023	230.27	0.61	0.00
						01/02/2023	230.27	0.61	0.00
						13/02/2023	230.21	0.67	0.00

Appendix G2: Table 1 Groundwater Monitoring Results Summary

Borehole ID	Easting	Northing	Elevation (m AOD)	Screened Horizon(m bgl)	Geology	Date	Water Level (m AOD)	Water Level (m bgl)	NAPL Thickness (m)
S1-BH122	284632.9	210701.3	230.82	1.0-1.9	Made Ground	15/11/2022	230.61	0.21	0.00
						16/11/2022	230.65	0.17	0.00
						17/11/2022	230.63	0.19	0.00
						21/11/2022	230.63	0.19	0.00
						22/11/2022	230.61	0.21	0.00
						23/11/2022	230.63	0.19	0.00
						24/11/2022	230.64	0.18	0.00
						25/11/2022	230.62	0.20	0.00
						28/11/2022	230.63	0.19	0.00
						02/12/2022	230.54	0.28	0.00
						05/12/2022	230.56	0.26	0.00
						12/12/2022	230.46	0.36	0.00
						13/12/2022	230.40	0.42	0.00
						14/12/2022	230.46	0.36	0.00
						15/12/2022	230.50	0.32	0.00
						16/12/2022	230.46	0.36	0.00
						20/12/2022	230.65	0.17	0.00
						23/12/2022	230.61	0.21	0.00
						09/01/2023	230.67	0.15	0.00
						24/01/2023	230.54	0.28	0.00
						31/01/2023	230.57	0.25	0.00
						01/02/2023	230.57	0.25	0.00
						13/02/2023	230.48	0.34	0.00

Appendix G2: Table 1 Groundwater Monitoring Results Summary

Borehole ID	Easting	Northing	Elevation (m AOD)	Screened Horizon(m bgl)	Geology	Date	Water Level (m AOD)	Water Level (m bgl)	NAPL Thickness (m)
SOP003.16	284914.08	210570.58	238.78	10.0-13.0	South Wales Coal Measures Formation	12/12/2022	227.48	11.30	0.00
						13/12/2022	227.44	11.34	0.00
						14/12/2022	227.42	11.36	0.00
						15/12/2022	227.43	11.35	0.00
						16/12/2022	227.43	11.35	0.00
						20/12/2022	227.43	11.35	0.00
						21/12/2022	227.44	11.34	0.00
						22/12/2022	226.43	12.35	0.00
						09/01/2023	228.58	10.20	0.00
						25/01/2023	227.74	11.04	0.00
						31/01/2023	227.50	11.28	0.00
						02/02/2023	227.48	11.30	0.00
						14/02/2023	227.40	11.38	0.00
BH29R	284719.48	210705.39	230.74	12.0-15.0	South Wales Coal Measures Formation	20/01/2022	230.43	0.31	0.00
						31/01/2022	229.91	0.83	0.00
						22/02/2022	229.96	0.78	0.00
						09/03/2022	230.04	0.70	0.00
						23/03/2022	230.02	0.72	0.00
						06/04/2022	229.84	0.90	0.00
						25/04/2022	229.70	1.04	0.00
BH30R	284925.69	210549.41	239.1	3.0-4.0	Made Ground	20/01/2022	236.06	3.04	0.00
						31/01/2022	235.90	3.20	0.00
						22/02/2022	236.09	3.01	0.00
						09/03/2022	236.15	2.95	0.00
						23/03/2022	236.30	2.80	0.00
						06/04/2022	236.00	3.10	0.00
						25/04/2022	235.50	3.60	0.00

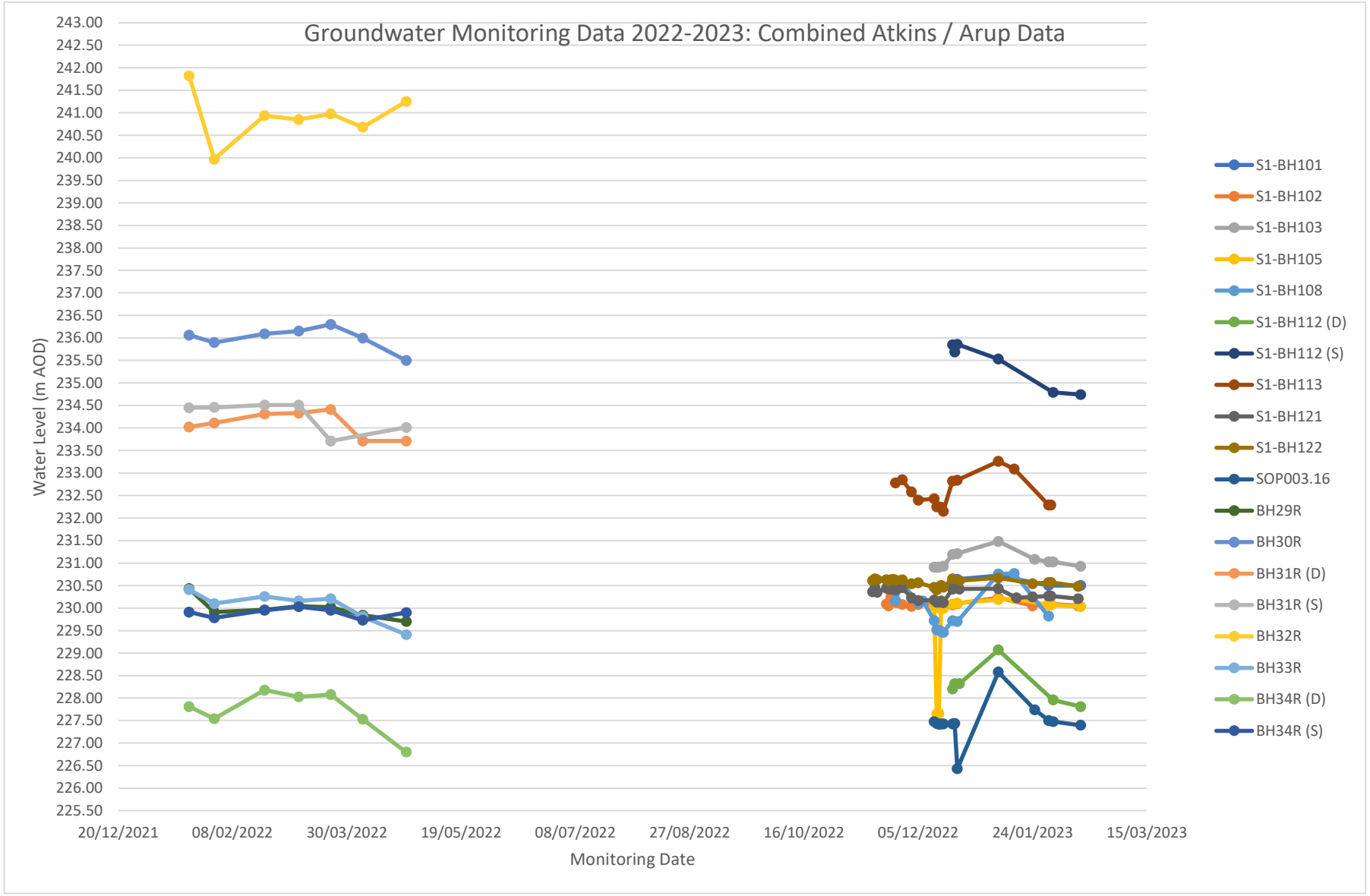
Appendix G2: Table 1 Groundwater Monitoring Results Summary

Borehole ID	Easting	Northing	Elevation (m AOD)	Screened Horizon(m bgl)	Geology	Date	Water Level (m AOD)	Water Level (m bgl)	NAPL Thickness (m)
BH31R (D)	284880.77	210454.81	238.61	16.0-21.0	South Wales Coal Measures Formation	20/01/2022	234.02	4.59	0.00
						31/01/2022	234.11	4.50	0.00
						22/02/2022	234.31	4.30	0.00
						09/03/2022	234.33	4.28	0.00
						23/03/2022	234.41	4.20	0.00
						06/04/2022	233.71	4.90	0.00
						25/04/2022	233.71	4.90	0.00
BH31R (S)	284880.77	210454.81	238.61	1.0-5.0	Made Ground	20/01/2022	234.45	4.16	0.00
						31/01/2022	234.46	4.15	0.00
						22/02/2022	234.51	4.10	0.00
						09/03/2022	234.51	4.10	0.00
						23/03/2022	233.71	4.90	0.00
						25/04/2022	234.01	4.60	0.00
BH32R	284967.95	210230.01	244.73	12.5-17.5	South Wales Coal Measures Formation	20/01/2022	241.82	2.91	0.00
						31/01/2022	239.97	4.76	0.00
						22/02/2022	240.94	3.79	0.00
						09/03/2022	240.85	3.88	0.00
						23/03/2022	240.98	3.75	0.00
						06/04/2022	240.68	4.05	0.00
						25/04/2022	241.25	3.48	0.00
BH33R	284397.04	210700.88	230.51	15.0-20.0	South Wales Coal Measures Formation	20/01/2022	230.41	0.10	0.00
						31/01/2022	230.10	0.41	0.00
						22/02/2022	230.26	0.25	0.00
						09/03/2022	230.16	0.35	0.00
						23/03/2022	230.21	0.30	0.00
						06/04/2022	229.81	0.70	0.00
						25/04/2022	229.41	1.10	0.00

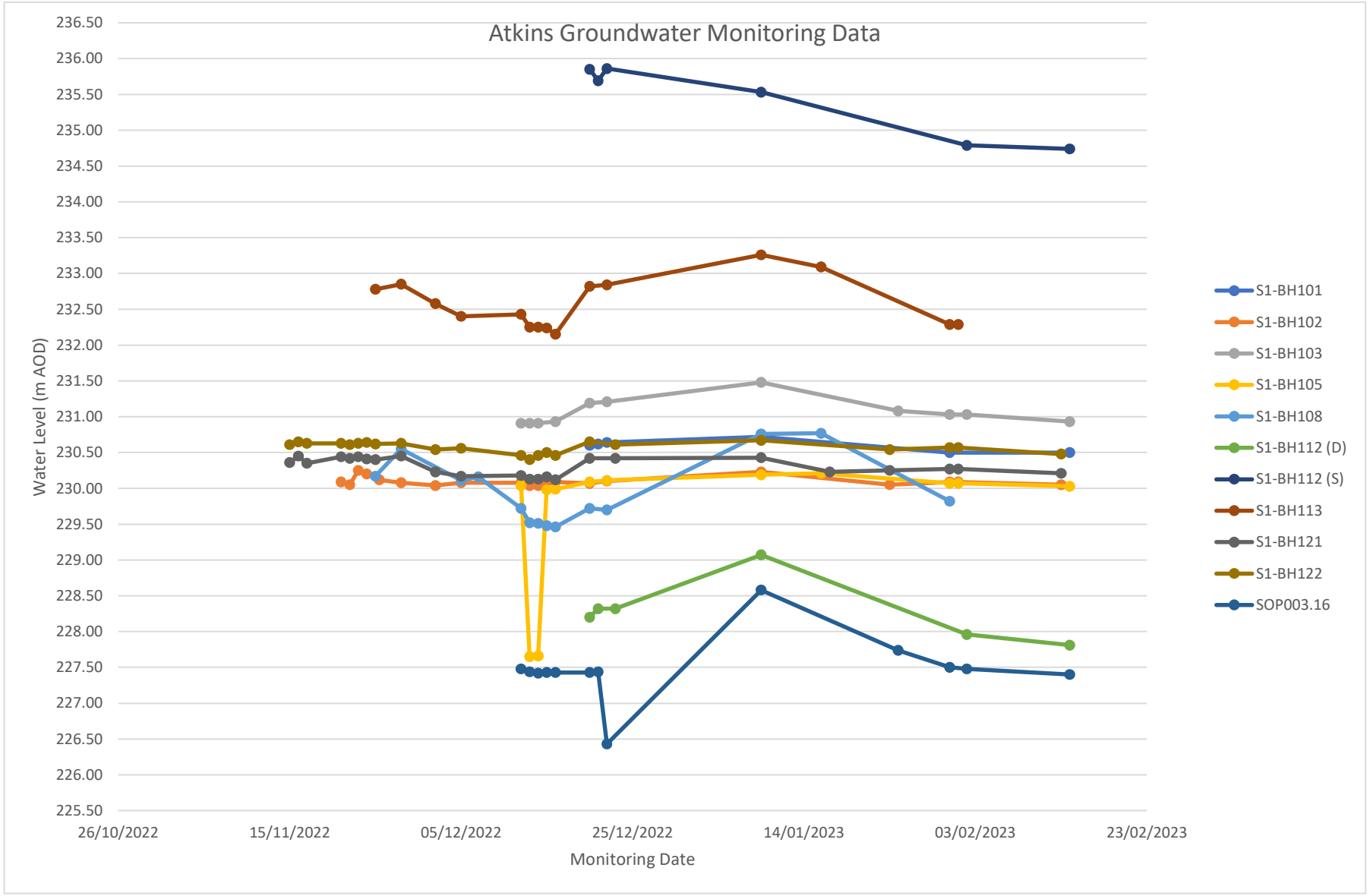
Appendix G2: Table 1 Groundwater Monitoring Results Summary

Borehole ID	Easting	Northing	Elevation (m AOD)	Screened Horizon(m bgl)	Geology	Date	Water Level (m AOD)	Water Level (m bgl)	NAPL Thickness (m)
BH34R (D)	284419.61	210543.6	232.63	11.0-13.0	South Wales Coal Measures Formation	20/01/2022	227.81	4.82	0.00
						31/01/2022	227.54	5.09	0.00
						22/02/2022	228.18	4.45	0.00
						09/03/2022	228.03	4.60	0.00
						23/03/2022	228.08	4.55	0.00
						06/04/2022	227.53	5.10	0.00
						25/04/2022	226.80	5.83	0.00
BH34R (S)	284419.61	210543.6	232.63	1.0-3.3	Made Ground	20/01/2022	229.91	2.72	0.00
						31/01/2022	229.78	2.85	0.00
						22/02/2022	229.95	2.68	0.00
						09/03/2022	230.03	2.60	0.00
						23/03/2022	229.95	2.68	0.00
						06/04/2022	229.73	2.90	0.00
						25/04/2022	229.90	2.73	0.00
Max							241.82	12.35	
Min							226.43	0.10	

Appendix G2: Atkins and Arup Data Hydrograph



Appendix G2: Atkins Data Hydrograph



Appendix H. Geological Long Section Drawings

GCRE001-AWJV-00-XX-DR-GE-00001 – Geological Long Section Earthwork Zone Plan
GCRE001-AWJV-00-XX-DR-GE-00002 – Geological Long Section Earthwork Zone 1
GCRE001-AWJV-00-XX-DR-GE-00003 – Geological Long Section Earthwork Zone 2
GCRE001-AWJV-00-XX-DR-GE-00004 – Geological Long Section Earthwork Zone 3
GCRE001-AWJV-00-XX-DR-GE-00005 – Geological Long Section Earthwork Zone 4
GCRE001-AWJV-00-XX-DR-GE-00006 – Geological Long Section Earthwork Zone 5
GCRE001-AWJV-00-XX-DR-GE-00007 – Geological Long Section Earthwork Zone 6
GCRE001-AWJV-00-XX-DR-GE-00008 – Geological Long Section Earthwork Zone 7
GCRE001-AWJV-00-XX-DR-GE-00009 – Geological Long Section Earthwork Zone 8
GCRE001-AWJV-00-XX-DR-GE-00010 – Geological Long Section Earthwork Zone 9
GCRE001-AWJV-00-XX-DR-GE-00011 – Geological Long Section Earthwork Zone 10
GCRE001-AWJV-00-XX-DR-GE-00012 – Geological Long Section Earthwork Zone 11
GCRE001-AWJV-00-XX-DR-GE-00013 – Geological Long Section Earthwork Zone 12

Appendix I. Geo-Environmental Screening

I.1. Soil Screening

I.2. Leachate Screening

I.3. Controlled Waters Screening

I.4. Predicted No Effect Concentrations (PNECs) Calculations

I.5. Gas Screening

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)

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	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)

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	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)

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	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)

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	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)

Appendix I.2

Table 2 Leachate EQS Screening

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH30	239.1	0.2	Cyanide (Total)	< 0.05	mg/l	0.05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Total Phenols	< 0.03	mg/l	0.03	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	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	Pyrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	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	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	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	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	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	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Chrysene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	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	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	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	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	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	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	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	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	Chromium (Total)	< 0.0005	mg/l	0.0005	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284925.7	210549.4	0.0137	NO	NO	0.18	POINT (284925.69 210549.41)
BH30	239.1	0.2	Selenium (Dissolved)	0.00068	mg/l	0.0005	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Acenaphthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Phenanthrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Fluorene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	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	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	Cyanide (Total)	0.14	mg/l	0.05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Total Phenols	< 0.03	mg/l	0.03	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	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	Pyrene	0.0046	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	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	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	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	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	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	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Chrysene	0.0014	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	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	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	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	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	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	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	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	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)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH33	230.51	0.2	Chromium (Total)	0.004	mg/l	0.0005	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284397	210700.9	0.0137	NO	NO	0.18	POINT (284397.04 210700.88)
BH33	230.51	0.2	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Acenaphthene	0.0013	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Phenanthrene	0.0051	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Fluorene	0.00093	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	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	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	Sulphate	7	mg/l	1	284925.4	210692	400	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Cyanide (Total)	< 0.05	mg/l	0.05	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Cyanide (Free)	< 0.05	mg/l	0.05	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Total Phenols	< 0.03	mg/l	0.03	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	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	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	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	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	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	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284925.4	210692	0.0137	NO	NO	0.18	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Selenium (Dissolved)	0.00066	mg/l	0.0005	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Sulphate	< 1.0	mg/l	1	284925.4	210692	400	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Cyanide (Total)	< 0.05	mg/l	0.05	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Cyanide (Free)	< 0.05	mg/l	0.05	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Total Phenols	< 0.03	mg/l	0.03	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	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	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	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	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	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	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	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	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	Zinc (Dissolved)	0.009	mg/l	0.0025	284925.4	210692	0.0137	NO	NO	0.66	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Selenium (Dissolved)	0.0022	mg/l	0.0005	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH102	230.73	0.2	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	Cyanide (Total)	< 0.05	mg/l	0.05	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	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	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	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	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	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	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)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH102	230.73	0.2	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	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	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	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	Zinc (Dissolved)	0.0049	mg/l	0.0025	284544.5	210695.4	0.0137	NO	NO	0.36	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	Selenium (Dissolved)	0.00066	mg/l	0.0005	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Sulphate	< 1.0	mg/l	1	284544.5	210695.4	400	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Cyanide (Total)	< 0.05	mg/l	0.05	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Cyanide (Free)	< 0.05	mg/l	0.05	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Total Phenols	< 0.03	mg/l	0.03	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	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	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	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	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	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	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	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	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	Zinc (Dissolved)	0.0073	mg/l	0.0025	284544.5	210695.4	0.0137	NO	NO	0.53	POINT (284544.49 210695.4)
S1-BH102	230.73	3	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH103	234.33	1	Sulphate	36	mg/l	1	284603.2	210646.5	400	NO	NO	0.09	POINT (284603.15 210646.48)
S1-BH103	234.33	1	Cyanide (Total)	< 0.05	mg/l	0.05	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Cyanide (Free)	< 0.05	mg/l	0.05	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Total Phenols	< 0.03	mg/l	0.03	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	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	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	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	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	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	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284603.2	210646.5	0.0137	NO	NO	0.18	POINT (284603.15 210646.48)
S1-BH103	234.33	1	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	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	Cyanide (Total)	< 0.05	mg/l	0.05	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	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	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	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	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	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	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	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	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)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH103	234.33	2.2	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284603.2	210646.5	0.0137	NO	NO	0.18	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	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	Sulphate	32	mg/l	1	284719	210649.9	400	NO	NO	0.08	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Cyanide (Total)	< 0.05	mg/l	0.05	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Cyanide (Free)	< 0.05	mg/l	0.05	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Total Phenols	< 0.03	mg/l	0.03	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	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	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	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	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	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	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284719	210649.9	0.0137	NO	NO	0.18	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Selenium (Dissolved)	0.0012	mg/l	0.0005	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	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	Cyanide (Total)	< 0.05	mg/l	0.05	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Cyanide (Free)	< 0.05	mg/l	0.05	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Total Phenols	< 0.03	mg/l	0.03	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	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	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	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	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	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	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	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	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	Zinc (Dissolved)	0.003	mg/l	0.0025	284719	210649.9	0.0137	NO	NO	0.22	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH106	241.27	2.5	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	Cyanide (Total)	< 0.05	mg/l	0.05	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	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	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	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	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	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	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	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	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	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)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH106	241.27	2.5	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	Zinc (Dissolved)	0.0026	mg/l	0.0025	284928.6	210637.4	0.0137	NO	NO	0.19	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	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	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	Cyanide (Total)	< 0.05	mg/l	0.05	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	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	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	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	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	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	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	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	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284928.6	210637.4	0.0137	NO	NO	0.18	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	Selenium (Dissolved)	0.00065	mg/l	0.0005	284928.6	210637.4		NO	NO		POINT (284928.61 210637.41)
S1-BH107	229.89	1	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	Cyanide (Total)	< 0.05	mg/l	0.05	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	Cyanide (Free)	< 0.05	mg/l	0.05	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	Total Phenols	< 0.03	mg/l	0.03	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	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	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	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	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	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	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	Chromium (Dissolved)	0.0011	mg/l	0.0005	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	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	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	Zinc (Dissolved)	0.0062	mg/l	0.0025	284280.5	210636.4	0.0137	NO	NO	0.45	POINT (284280.5 210636.35)
S1-BH107	229.89	1	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	Sulphate	15	mg/l	1	284415.1	210632	400	NO	NO	0.04	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Cyanide (Total)	< 0.05	mg/l	0.05	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Cyanide (Free)	< 0.05	mg/l	0.05	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Total Phenols	< 0.03	mg/l	0.03	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	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	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	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	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	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	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284415.1	210632	0.0137	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)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH108	231.95	0.3	Selenium (Dissolved)	0.0013	mg/l	0.0005	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH109	236.37	0.2	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	Cyanide (Total)	< 0.05	mg/l	0.05	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	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	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	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	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	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	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	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	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	Chromium (Dissolved)	0.00073	mg/l	0.0005	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284752.2	210629.6	0.0137	NO	NO	0.18	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	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	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	Cyanide (Total)	< 0.05	mg/l	0.05	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	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	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	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	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	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	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	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	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284752.2	210629.6		NO	NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284752.2	210629.6	0.0137	NO	NO	0.18	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	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	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	Cyanide (Total)	< 0.05	mg/l	0.05	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	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	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	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	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	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	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	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	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	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	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	Zinc (Dissolved)	0.0025	mg/l	0.0025	284595.1	210619.9	0.0137	NO	NO	0.18	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	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	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)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH110	234.05	1.8	Cyanide (Total)	< 0.05	mg/l	0.05	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	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	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	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	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	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	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	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	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284595.1	210619.9		NO	NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284595.1	210619.9	0.0137	NO	NO	0.18	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	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	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	Cyanide (Total)	< 0.05	mg/l	0.05	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Cyanide (Free)	< 0.05	mg/l	0.05	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Total Phenols	< 0.03	mg/l	0.03	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	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	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	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	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	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	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	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	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	Zinc (Dissolved)	0.0073	mg/l	0.0025	284882.1	210600	0.0137	NO	NO	0.53	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH114	228.51	0.2	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	Cyanide (Total)	< 0.05	mg/l	0.05	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	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	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	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	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	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	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	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	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284194.9	210572.3	0.0137	NO	NO	0.18	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	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	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	Cyanide (Total)	< 0.05	mg/l	0.05	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	Cyanide (Free)	< 0.05	mg/l	0.05	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)

Appendix I.2

Table 2 Leachate EQS Screening

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH114	228.51	0.7	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	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	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	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	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	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	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	Chromium (Dissolved)	0.00054	mg/l	0.0005	284194.9	210572.3		NO	NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284194.9	210572.3	0.0137	NO	NO	0.18	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	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	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	Cyanide (Total)	< 0.05	mg/l	0.05	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	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	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	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	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	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	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	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	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284845.8	210624.4		NO	NO		POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284845.8	210624.4	0.0137	NO	NO	0.18	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	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	Sulphate	2.2	mg/l	1	284475.7	210703	400	NO	NO	0.01	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Cyanide (Total)	< 0.05	mg/l	0.05	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Cyanide (Free)	< 0.05	mg/l	0.05	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Total Phenols	< 0.03	mg/l	0.03	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	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	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	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	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	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	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284475.7	210703	0.0137	NO	NO	0.18	POINT (284475.72 210703)
S1-BH121	230.88	0.5	Selenium (Dissolved)	0.0011	mg/l	0.0005	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH122	230.82	0.2	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	Cyanide (Total)	< 0.05	mg/l	0.05	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	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	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	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)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH122	230.82	0.2	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	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	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	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	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284632.9	210701.3	0.0137	NO	NO	0.18	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	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	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	Cyanide (Total)	< 0.05	mg/l	0.05	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	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	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	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	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	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	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	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	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	Chromium (Dissolved)	0.0019	mg/l	0.0005	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	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	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	Zinc (Dissolved)	0.0071	mg/l	0.0025	284432.8	210649.5	0.0137	NO	NO	0.52	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	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	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	Cyanide (Total)	< 0.05	mg/l	0.05	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	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	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	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	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	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	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	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	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284432.8	210649.5		NO	NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	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	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	Zinc (Dissolved)	0.0058	mg/l	0.0025	284432.8	210649.5	0.0137	NO	NO	0.42	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	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	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	Cyanide (Total)	< 0.05	mg/l	0.05	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	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	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	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	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	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)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-TP112	232.16	0.9	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	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	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	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	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	Zinc (Dissolved)	0.0032	mg/l	0.0025	284486.6	210626.2	0.0137	NO	NO	0.23	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	Selenium (Dissolved)	0.0019	mg/l	0.0005	284486.6	210626.2		NO	NO		POINT (284486.56 210626.19)
S1-TP113	233	0.5	Sulphate	8.5	mg/l	1	284529	210618	400	NO	NO	0.02	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Cyanide (Total)	< 0.05	mg/l	0.05	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Cyanide (Free)	< 0.05	mg/l	0.05	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Total Phenols	< 0.03	mg/l	0.03	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	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	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	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	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	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	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284529	210618	0.0137	NO	NO	0.18	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Selenium (Dissolved)	0.0024	mg/l	0.0005	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP114	239.99	0.1	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	Cyanide (Total)	< 0.05	mg/l	0.05	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Cyanide (Free)	< 0.05	mg/l	0.05	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Total Phenols	< 0.03	mg/l	0.03	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	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	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	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	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	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	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	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	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	Zinc (Dissolved)	0.013	mg/l	0.0025	284975	210562.9	0.0137	NO	NO	0.95	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Sulphate	15	mg/l	1	284975	210562.9	400	NO	NO	0.04	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Cyanide (Total)	0.36	mg/l	0.05	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Cyanide (Free)	0.36	mg/l	0.05	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Total Phenols	< 0.03	mg/l	0.03	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	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	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	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	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	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)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-TP114	239.99	0.9	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	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	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	Zinc (Dissolved)	0.0026	mg/l	0.0025	284975	210562.9	0.0137	NO	NO	0.19	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Selenium (Dissolved)	0.0025	mg/l	0.0005	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP115	230.63	0.2	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	Cyanide (Total)	< 0.05	mg/l	0.05	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	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	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	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	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	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	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	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	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	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284344.6	210556.7	0.0137	NO	NO	0.18	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	Selenium (Dissolved)	0.0016	mg/l	0.0005	284344.6	210556.7		NO	NO		POINT (284344.59 210556.68)
BH30	239.1	0.2	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	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	pH	7.7	-	0	284925.4	210692	6.0-9.0		NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	pH	6.5	-	0	284925.4	210692	6.0-9.0		NO		POINT (284925.38 210692.01)
S1-BH102	230.73	0.2	pH	8.2	-	0	284544.5	210695.4	6.0-9.0		NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	pH	6.3	-	0	284544.5	210695.4	6.0-9.0		NO		POINT (284544.49 210695.4)
S1-BH103	234.33	1	pH	7.9	-	0	284603.2	210646.5	6.0-9.0		NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	pH	8.3	-	0	284603.2	210646.5	6.0-9.0		NO		POINT (284603.15 210646.48)
S1-BH105	236.49	0.2	pH	7.3	-	0	284719	210649.9	6.0-9.0		NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	pH	8.3	-	0	284719	210649.9	6.0-9.0		NO		POINT (284718.99 210649.88)
S1-BH106	241.27	2.5	pH	8.8	-	0	284928.6	210637.4	6.0-9.0		NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	pH	8.9	-	0	284928.6	210637.4	6.0-9.0		NO		POINT (284928.61 210637.41)
S1-BH107	229.89	1	pH	8.5	-	0	284280.5	210636.4	6.0-9.0		NO		POINT (284280.5 210636.35)
S1-BH108	231.95	0.3	pH	8.3	-	0	284415.1	210632	6.0-9.0		NO		POINT (284415.11 210631.95)
S1-BH109	236.37	0.2	pH	9.4	-	0	284752.2	210629.6	6.0-9.0		YES		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	pH	7.7	-	0	284752.2	210629.6	6.0-9.0		NO		POINT (284752.18 210629.62)
S1-BH110	234.05	0.3	pH	7	-	0	284595.1	210619.9	6.0-9.0		NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	pH	8.3	-	0	284595.1	210619.9	6.0-9.0		NO		POINT (284595.14 210619.88)
S1-BH112	237.94	1.5	pH	8.3	-	0	284882.1	210600	6.0-9.0		NO		POINT (284882.07 210599.97)
S1-BH114	228.51	0.2	pH	7.7	-	0	284194.9	210572.3	6.0-9.0		NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	pH	8.6	-	0	284194.9	210572.3	6.0-9.0		NO		POINT (284194.89 210572.28)
S1-BH116	237.25	2.7	pH	7.3	-	0	284845.8	210624.4	6.0-9.0		NO		POINT (284845.78 210624.37)
S1-BH121	230.88	0.5	pH	8.8	-	0	284475.7	210703	6.0-9.0		NO		POINT (284475.72 210703)
S1-BH122	230.82	0.2	pH	8.5	-	0	284632.9	210701.3	6.0-9.0		NO		POINT (284632.9 210701.3)
S1-TP111	231.25	0.2	pH	6.7	-	0	284432.8	210649.5	6.0-9.0		NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	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)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-TP112	232.16	0.9	pH	6.8	-	0	284486.6	210626.2	6.0-9.0		NO		POINT (284486.56 210626.19)
S1-TP113	233	0.5	pH	8.4	-	0	284529	210618	6.0-9.0		NO		POINT (284528.96 210618.04)
S1-TP114	239.99	0.1	pH	7.4	-	0	284975	210562.9	6.0-9.0		NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	pH	7.9	-	0	284975	210562.9	6.0-9.0		NO		POINT (284975.01 210562.92)
S1-TP115	230.63	0.2	pH	8.3	-	0	284344.6	210556.7	6.0-9.0		NO		POINT (284344.59 210556.68)

Appendix I.2

Table 1 Leachate Results Screened Against DWS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH30	239.1	0.2	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	Total Phenols	< 0.03	mg/l	0.03	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Anthracene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Pyrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	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	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	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	Fluoranthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	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	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Chrysene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	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	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	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	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	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	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	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	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	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284925.7	210549.4	3	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	0.2	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	Acenaphthene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Phenanthrene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Fluorene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	Naphthalene	< 1e-05	mg/l	1.00E-05	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	0.2	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	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	Total Phenols	< 0.03	mg/l	0.03	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Anthracene	0.0014	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Pyrene	0.0046	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	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	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	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	Fluoranthene	0.0054	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	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	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Chrysene	0.0014	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	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	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	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	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	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	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	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	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)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH33	230.51	0.2	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284397	210700.9	3	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.2	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	Acenaphthene	0.0013	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Phenanthrene	0.0051	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Fluorene	0.00093	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	Naphthalene	0.00067	mg/l	1.00E-05	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.2	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	Sulphate	7	mg/l	1	284925.4	210692	250	NO	NO	0.03	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	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	Cyanide (Free)	< 0.05	mg/l	0.05	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Total Phenols	< 0.03	mg/l	0.03	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	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	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	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	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	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	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	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	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284925.4	210692	3	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	7.5	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	Sulphate	< 1.0	mg/l	1	284925.4	210692	250	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	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	Cyanide (Free)	< 0.05	mg/l	0.05	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Total Phenols	< 0.03	mg/l	0.03	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	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	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	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	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	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	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	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	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284925.4	210692		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	Zinc (Dissolved)	0.009	mg/l	0.0025	284925.4	210692	3	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	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	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	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	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	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	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	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	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	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)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH102	230.73	0.2	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	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	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	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	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	Zinc (Dissolved)	0.0049	mg/l	0.0025	284544.5	210695.4	3	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	0.2	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	Sulphate	< 1.0	mg/l	1	284544.5	210695.4	250	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	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	Cyanide (Free)	< 0.05	mg/l	0.05	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Total Phenols	< 0.03	mg/l	0.03	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	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	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	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	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	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	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	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	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284544.5	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	Zinc (Dissolved)	0.0073	mg/l	0.0025	284544.5	210695.4	3	NO	NO	0	POINT (284544.49 210695.4)
S1-BH102	230.73	3	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	Sulphate	36	mg/l	1	284603.2	210646.5	250	NO	NO	0.14	POINT (284603.15 210646.48)
S1-BH103	234.33	1	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	Cyanide (Free)	< 0.05	mg/l	0.05	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Total Phenols	< 0.03	mg/l	0.03	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	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	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	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	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	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	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	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	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284603.2	210646.5		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	1	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284603.2	210646.5	3	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	1	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	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	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	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	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	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	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	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	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	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	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)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH103	234.33	2.2	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	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284603.2	210646.5	3	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	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	Sulphate	32	mg/l	1	284719	210649.9	250	NO	NO	0.13	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	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	Cyanide (Free)	< 0.05	mg/l	0.05	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Total Phenols	< 0.03	mg/l	0.03	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	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	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	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	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	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	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	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	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284719	210649.9	3	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	0.2	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	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	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	Cyanide (Free)	< 0.05	mg/l	0.05	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Total Phenols	< 0.03	mg/l	0.03	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	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	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	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	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	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	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	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	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284719	210649.9		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	Zinc (Dissolved)	0.003	mg/l	0.0025	284719	210649.9	3	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	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	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	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	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	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	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	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	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	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	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	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	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	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)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH106	241.27	2.5	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	Zinc (Dissolved)	0.0026	mg/l	0.0025	284928.6	210637.4	3	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	2.5	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	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	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	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	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	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	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	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	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	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	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	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	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284928.6	210637.4	3	NO	NO	0	POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	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	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	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	Cyanide (Free)	< 0.05	mg/l	0.05	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	Total Phenols	< 0.03	mg/l	0.03	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	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	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	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	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	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	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	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	Vanadium (Dissolved)	0.0016	mg/l	0.0005	284280.5	210636.4		NO	NO		POINT (284280.5 210636.35)
S1-BH107	229.89	1	Zinc (Dissolved)	0.0062	mg/l	0.0025	284280.5	210636.4	3	NO	NO	0	POINT (284280.5 210636.35)
S1-BH107	229.89	1	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	Sulphate	15	mg/l	1	284415.1	210632	250	NO	NO	0.06	POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	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	Cyanide (Free)	< 0.05	mg/l	0.05	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Total Phenols	< 0.03	mg/l	0.03	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	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	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	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	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	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	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	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	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284415.1	210632		NO	NO		POINT (284415.11 210631.95)
S1-BH108	231.95	0.3	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284415.1	210632	3	NO	NO	0	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)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH108	231.95	0.3	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	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	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	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	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	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	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	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	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	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	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	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	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284752.2	210629.6	3	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	0.2	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	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	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	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	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	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	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	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	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	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	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	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	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284752.2	210629.6	3	NO	NO	0	POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	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	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	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	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	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	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	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	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	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	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	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	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	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	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	Zinc (Dissolved)	0.0025	mg/l	0.0025	284595.1	210619.9	3	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	0.3	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	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)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH110	234.05	1.8	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	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	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	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	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	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	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	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	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	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	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284595.1	210619.9	3	NO	NO	0	POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	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	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	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	Cyanide (Free)	< 0.05	mg/l	0.05	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Total Phenols	< 0.03	mg/l	0.03	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	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	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	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	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	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	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	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	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284882.1	210600		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	Zinc (Dissolved)	0.0073	mg/l	0.0025	284882.1	210600	3	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	1.5	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	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	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	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	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	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	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	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	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	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	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	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	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284194.9	210572.3	3	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.2	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	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	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	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)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH114	228.51	0.7	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	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	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	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	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	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	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	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	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284194.9	210572.3	3	NO	NO	0	POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	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	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	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	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	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	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	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	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	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	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	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	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	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284845.8	210624.4	3	NO	NO	0	POINT (284845.78 210624.37)
S1-BH116	237.25	2.7	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	Sulphate	2.2	mg/l	1	284475.7	210703	250	NO	NO	0.01	POINT (284475.72 210703)
S1-BH121	230.88	0.5	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	Cyanide (Free)	< 0.05	mg/l	0.05	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Total Phenols	< 0.03	mg/l	0.03	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	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	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	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	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	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	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	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	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284475.7	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	0.5	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284475.7	210703	3	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	0.5	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	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	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	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	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	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)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH122	230.82	0.2	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	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	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	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	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	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	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284632.9	210701.3	3	NO	NO	0	POINT (284632.9 210701.3)
S1-BH122	230.82	0.2	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	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	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	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	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	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	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	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	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	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	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	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	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	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	Zinc (Dissolved)	0.0071	mg/l	0.0025	284432.8	210649.5	3	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.2	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	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	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	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	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	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	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	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	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	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	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	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	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	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	Zinc (Dissolved)	0.0058	mg/l	0.0025	284432.8	210649.5	3	NO	NO	0	POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	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	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	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	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	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	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	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	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)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-TP112	232.16	0.9	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	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	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	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	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	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	Zinc (Dissolved)	0.0032	mg/l	0.0025	284486.6	210626.2	3	NO	NO	0	POINT (284486.56 210626.19)
S1-TP112	232.16	0.9	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	Sulphate	8.5	mg/l	1	284529	210618	250	NO	NO	0.03	POINT (284528.96 210618.04)
S1-TP113	233	0.5	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	Cyanide (Free)	< 0.05	mg/l	0.05	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Total Phenols	< 0.03	mg/l	0.03	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	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	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	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	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	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	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	Copper (Dissolved)	0.0014	mg/l	0.0005	284529	210618	2	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	Vanadium (Dissolved)	0.0019	mg/l	0.0005	284529	210618		NO	NO		POINT (284528.96 210618.04)
S1-TP113	233	0.5	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284529	210618	3	NO	NO	0	POINT (284528.96 210618.04)
S1-TP113	233	0.5	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	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	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	Cyanide (Free)	< 0.05	mg/l	0.05	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Total Phenols	< 0.03	mg/l	0.03	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	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	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	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	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	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	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	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	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	Zinc (Dissolved)	0.013	mg/l	0.0025	284975	210562.9	3	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.1	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	Sulphate	15	mg/l	1	284975	210562.9	250	NO	NO	0.06	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	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	Cyanide (Free)	0.36	mg/l	0.05	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Total Phenols	< 0.03	mg/l	0.03	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	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	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	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	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)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-TP114	239.99	0.9	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	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	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	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284975	210562.9		NO	NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	Zinc (Dissolved)	0.0026	mg/l	0.0025	284975	210562.9	3	NO	NO	0	POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	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	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	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	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	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	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	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	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	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	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	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	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	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284344.6	210556.7	3	NO	NO	0	POINT (284344.59 210556.68)
S1-TP115	230.63	0.2	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	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	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	pH	7.7	-	0	284925.4	210692	6.5-9.5		NO		POINT (284925.38 210692.01)
S1-BH101	241.16	0.3	pH	6.5	-	0	284925.4	210692	6.5-9.5		NO		POINT (284925.38 210692.01)
S1-BH102	230.73	0.2	pH	8.2	-	0	284544.5	210695.4	6.5-9.5		NO		POINT (284544.49 210695.4)
S1-BH102	230.73	3	pH	6.3	-	0	284544.5	210695.4	6.5-9.5		YES		POINT (284544.49 210695.4)
S1-BH103	234.33	1	pH	7.9	-	0	284603.2	210646.5	6.5-9.5		NO		POINT (284603.15 210646.48)
S1-BH103	234.33	2.2	pH	8.3	-	0	284603.2	210646.5	6.5-9.5		NO		POINT (284603.15 210646.48)
S1-BH105	236.49	0.2	pH	7.3	-	0	284719	210649.9	6.5-9.5		NO		POINT (284718.99 210649.88)
S1-BH105	236.49	4.7	pH	8.3	-	0	284719	210649.9	6.5-9.5		NO		POINT (284718.99 210649.88)
S1-BH106	241.27	2.5	pH	8.8	-	0	284928.6	210637.4	6.5-9.5		NO		POINT (284928.61 210637.41)
S1-BH106	241.27	0.9	pH	8.9	-	0	284928.6	210637.4	6.5-9.5		NO		POINT (284928.61 210637.41)
S1-BH107	229.89	1	pH	8.5	-	0	284280.5	210636.4	6.5-9.5		NO		POINT (284280.5 210636.35)
S1-BH108	231.95	0.3	pH	8.3	-	0	284415.1	210632	6.5-9.5		NO		POINT (284415.11 210631.95)
S1-BH109	236.37	0.2	pH	9.4	-	0	284752.2	210629.6	6.5-9.5		NO		POINT (284752.18 210629.62)
S1-BH109	236.37	8.4	pH	7.7	-	0	284752.2	210629.6	6.5-9.5		NO		POINT (284752.18 210629.62)
S1-BH110	234.05	0.3	pH	7	-	0	284595.1	210619.9	6.5-9.5		NO		POINT (284595.14 210619.88)
S1-BH110	234.05	1.8	pH	8.3	-	0	284595.1	210619.9	6.5-9.5		NO		POINT (284595.14 210619.88)
S1-BH112	237.94	1.5	pH	8.3	-	0	284882.1	210600	6.5-9.5		NO		POINT (284882.07 210599.97)
S1-BH114	228.51	0.2	pH	7.7	-	0	284194.9	210572.3	6.5-9.5		NO		POINT (284194.89 210572.28)
S1-BH114	228.51	0.7	pH	8.6	-	0	284194.9	210572.3	6.5-9.5		NO		POINT (284194.89 210572.28)
S1-BH116	237.25	2.7	pH	7.3	-	0	284845.8	210624.4	6.5-9.5		NO		POINT (284845.78 210624.37)
S1-BH121	230.88	0.5	pH	8.8	-	0	284475.7	210703	6.5-9.5		NO		POINT (284475.72 210703)
S1-BH122	230.82	0.2	pH	8.5	-	0	284632.9	210701.3	6.5-9.5		NO		POINT (284632.9 210701.3)
S1-TP111	231.25	0.2	pH	6.7	-	0	284432.8	210649.5	6.5-9.5		NO		POINT (284432.79 210649.48)
S1-TP111	231.25	0.9	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)	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-TP112	232.16	0.9	pH	6.8	-	0	284486.6	210626.2	6.5-9.5		NO		POINT (284486.56 210626.19)
S1-TP113	233	0.5	pH	8.4	-	0	284529	210618	6.5-9.5		NO		POINT (284528.96 210618.04)
S1-TP114	239.99	0.1	pH	7.4	-	0	284975	210562.9	6.5-9.5		NO		POINT (284975.01 210562.92)
S1-TP114	239.99	0.9	pH	7.9	-	0	284975	210562.9	6.5-9.5		NO		POINT (284975.01 210562.92)
S1-TP115	230.63	0.2	pH	8.3	-	0	284344.6	210556.7	6.5-9.5		NO		POINT (284344.59 210556.68)

Appendix I.3

Table 1 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	0.00001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Pyrene	< 1e-05	mg/l	0.00001	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	0.000001	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	0.00001	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	0.00001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Benzo[b]fluoranthene	< 1e-05	mg/l	0.00001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Fluoranthene	< 1e-05	mg/l	0.00001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Benzo[k]fluoranthene	< 1e-05	mg/l	0.00001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Acenaphthylene	< 1e-05	mg/l	0.00001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Chrysene	< 1e-05	mg/l	0.00001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		PCB 118	< 1e-06	mg/l	0.000001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		PCB 153	< 1e-06	mg/l	0.000001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		PCB 138	< 1e-06	mg/l	0.000001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		PCB 180	< 1e-06	mg/l	0.000001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		PCB 52	< 1e-06	mg/l	0.000001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		PCB 90+101	< 1e-06	mg/l	0.000001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Benzo[a]pyrene	< 1e-05	mg/l	0.00001	284719.5	210705.4	0.00001	NO	NO	1	POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Dibenz(a,h)Anthracene	< 1e-05	mg/l	0.00001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Benzo[a]anthracene	< 1e-05	mg/l	0.00001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		PCB 28	< 1e-06	mg/l	0.000001	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	0.00005	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	3	NO	NO	0.01	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	0.00001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)

Appendix I.3

Table 1 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	0.00001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Fluorene	< 1e-05	mg/l	0.00001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1		Naphthalene	< 1e-05	mg/l	0.00001	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	0.00001	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	0.00001	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	0.000001	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	0.00001	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	0.00001	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	0.00001	284719.5	210705.4		NO	NO		POINT (284719.48 210705.39)

Appendix I.3

Table 1 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	0.00001	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	0.00001	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	0.00001	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	0.00001	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	0.000001	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	0.000001	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	0.000001	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	0.000001	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	0.000001	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	0.000001	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	0.00001	284719.5	210705.4	0.00001	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	0.00001	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	0.00001	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	0.000001	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	0.00005	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	3	NO	NO	0	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	0.00001	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	0.00001	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	0.00001	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	0.00001	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 1 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	0.00001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Pyrene	< 1e-05	mg/l	0.00001	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	0.000001	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	0.00001	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	0.00001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Benzo[b]fluoranthene	< 1e-05	mg/l	0.00001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Fluoranthene	< 1e-05	mg/l	0.00001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Benzo[k]fluoranthene	< 1e-05	mg/l	0.00001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Acenaphthylene	< 1e-05	mg/l	0.00001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Chrysene	< 1e-05	mg/l	0.00001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		PCB 118	< 1e-06	mg/l	0.000001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		PCB 153	< 1e-06	mg/l	0.000001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		PCB 138	< 1e-06	mg/l	0.000001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		PCB 180	< 1e-06	mg/l	0.000001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		PCB 52	< 1e-06	mg/l	0.000001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		PCB 90+101	< 1e-06	mg/l	0.000001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Benzo[a]pyrene	< 1e-05	mg/l	0.00001	284925.7	210549.4	0.00001	NO	NO	1	POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Dibenz(a,h)Anthracene	< 1e-05	mg/l	0.00001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Benzo[a]anthracene	< 1e-05	mg/l	0.00001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		PCB 28	< 1e-06	mg/l	0.000001	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	0.00005	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 1 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	3	NO	NO	0.01	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	0.00001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Phenanthrene	< 1e-05	mg/l	0.00001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Fluorene	< 1e-05	mg/l	0.00001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1		Naphthalene	< 1e-05	mg/l	0.00001	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	0.00001	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	0.00001	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	0.000001	284925.7	210549.4		NO	NO		POINT (284925.69 210549.41)

Appendix I.3

Table 1 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	0.00001	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	0.00001	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	0.00001	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	0.00001	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	0.00001	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	0.00001	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	0.00001	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	0.000001	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	0.000001	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	0.000001	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	0.000001	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	0.000001	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	0.000001	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	0.00001	284925.7	210549.4	0.00001	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	0.00001	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	0.00001	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	0.000001	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	0.00005	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	3	NO	NO	0	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	0.00001	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	0.00001	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	0.00001	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	0.00001	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 1 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	0.00001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Pyrene	< 1e-05	mg/l	0.00001	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	0.000001	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	0.00001	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	0.00001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Benzo[b]fluoranthene	< 1e-05	mg/l	0.00001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Fluoranthene	< 1e-05	mg/l	0.00001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Benzo[k]fluoranthene	< 1e-05	mg/l	0.00001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Acenaphthylene	< 1e-05	mg/l	0.00001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Chrysene	< 1e-05	mg/l	0.00001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		PCB 118	< 1e-06	mg/l	0.000001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		PCB 153	< 1e-06	mg/l	0.000001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		PCB 138	< 1e-06	mg/l	0.000001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		PCB 180	< 1e-06	mg/l	0.000001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		PCB 52	< 1e-06	mg/l	0.000001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		PCB 90+101	< 1e-06	mg/l	0.000001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Benzo[a]pyrene	< 1e-05	mg/l	0.00001	284880.8	210454.8	0.00001	NO	NO	1	POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Dibenz(a,h)Anthracene	< 1e-05	mg/l	0.00001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Benzo[a]anthracene	< 1e-05	mg/l	0.00001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		PCB 28	< 1e-06	mg/l	0.000001	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	0.00005	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 1 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	3	NO	NO	0	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	0.00001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Phenanthrene	< 1e-05	mg/l	0.00001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Fluorene	< 1e-05	mg/l	0.00001	284880.8	210454.8		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1		Naphthalene	< 1e-05	mg/l	0.00001	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 1 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	0.00001	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	0.00001	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	0.000001	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	0.00001	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	0.00001	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	0.00001	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	0.00001	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	0.00001	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	0.00001	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	0.00001	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	0.000001	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	0.000001	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	0.000001	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	0.000001	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	0.000001	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	0.000001	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	0.00001	284880.8	210454.8	0.00001	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	0.00001	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	0.00001	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	0.000001	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	0.00005	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	3	NO	NO	0.01	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	0.00001	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	0.00001	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	0.00001	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	0.00001	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 1 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	0.00001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Pyrene	< 1e-05	mg/l	0.00001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Total PCBs (7 congeners)	< 1e-06	mg/l	0.000001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Benzo[g,h,i]perylene	< 1e-05	mg/l	0.00001	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	0.00001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Benzo[b]fluoranthene	< 1e-05	mg/l	0.00001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Fluoranthene	< 1e-05	mg/l	0.00001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Benzo[k]fluoranthene	< 1e-05	mg/l	0.00001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Acenaphthylene	< 1e-05	mg/l	0.00001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Chrysene	< 1e-05	mg/l	0.00001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		PCB 118	< 1e-06	mg/l	0.000001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		PCB 153	< 1e-06	mg/l	0.000001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		PCB 138	< 1e-06	mg/l	0.000001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		PCB 180	< 1e-06	mg/l	0.000001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		PCB 52	< 1e-06	mg/l	0.000001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		PCB 90+101	< 1e-06	mg/l	0.000001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Benzo[a]pyrene	< 1e-05	mg/l	0.00001	284968	210230	0.00001	NO	NO	1	POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Dibenz(a,h)Anthracene	< 1e-05	mg/l	0.00001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Benzo[a]anthracene	< 1e-05	mg/l	0.00001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		PCB 28	< 1e-06	mg/l	0.000001	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 1 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	0.00005	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	3	NO	NO	0.01	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	0.00001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Phenanthrene	< 1e-05	mg/l	0.00001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Fluorene	< 1e-05	mg/l	0.00001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1		Naphthalene	< 1e-05	mg/l	0.00001	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 1 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	0.00001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Pyrene	< 1e-05	mg/l	0.00001	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	0.000001	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	0.00001	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	0.00001	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	0.00001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Fluoranthene	< 1e-05	mg/l	0.00001	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	0.00001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Acenaphthylene	< 1e-05	mg/l	0.00001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Chrysene	< 1e-05	mg/l	0.00001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	PCB 118	< 1e-06	mg/l	0.000001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	PCB 153	< 1e-06	mg/l	0.000001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	PCB 138	< 1e-06	mg/l	0.000001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	PCB 180	< 1e-06	mg/l	0.000001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	PCB 52	< 1e-06	mg/l	0.000001	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	0.000001	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	0.00001	284968	210230	0.00001	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	0.00001	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	0.00001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	PCB 28	< 1e-06	mg/l	0.000001	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	0.00005	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	3	NO	NO	0	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	0.00001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Phenanthrene	< 1e-05	mg/l	0.00001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Fluorene	< 1e-05	mg/l	0.00001	284968	210230		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	14/03/2022	Naphthalene	< 1e-05	mg/l	0.00001	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 1 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	0.00001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Pyrene	< 1e-05	mg/l	0.00001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Total PCBs (7 congeners)	< 1e-06	mg/l	0.000001	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	0.00001	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	0.00001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Benzo[b]fluoranthene	< 1e-05	mg/l	0.00001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Fluoranthene	< 1e-05	mg/l	0.00001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Benzo[k]fluoranthene	< 1e-05	mg/l	0.00001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Acenaphthylene	< 1e-05	mg/l	0.00001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Chrysene	< 1e-05	mg/l	0.00001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		PCB 118	< 1e-06	mg/l	0.000001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		PCB 153	< 1e-06	mg/l	0.000001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		PCB 138	< 1e-06	mg/l	0.000001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		PCB 180	< 1e-06	mg/l	0.000001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		PCB 52	< 1e-06	mg/l	0.000001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		PCB 90+101	< 1e-06	mg/l	0.000001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Benzo[a]pyrene	< 1e-05	mg/l	0.00001	284397	210700.9	0.00001	NO	NO	1	POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Dibenz(a,h)Anthracene	< 1e-05	mg/l	0.00001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Benzo[a]anthracene	< 1e-05	mg/l	0.00001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)

Appendix I.3

Table 1 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	0.000001	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	0.00005	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	3	NO	NO	0.01	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	0.00001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Phenanthrene	< 1e-05	mg/l	0.00001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Fluorene	< 1e-05	mg/l	0.00001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1		Naphthalene	< 1e-05	mg/l	0.00001	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 1 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	0.00001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Pyrene	< 1e-05	mg/l	0.00001	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	0.000001	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	0.00001	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	0.00001	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	0.00001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Fluoranthene	< 1e-05	mg/l	0.00001	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	0.00001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Acenaphthylene	< 1e-05	mg/l	0.00001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Chrysene	< 1e-05	mg/l	0.00001	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	0.000001	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	0.000001	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	0.000001	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	0.000001	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	0.000001	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	0.000001	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	0.00001	284397	210700.9	0.00001	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	0.00001	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	0.00001	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	0.000001	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	0.00005	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	3	NO	NO	0	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	0.00001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Phenanthrene	< 1e-05	mg/l	0.00001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Fluorene	< 1e-05	mg/l	0.00001	284397	210700.9		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	14/03/2022	Naphthalene	< 1e-05	mg/l	0.00001	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 1 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	0.00001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Pyrene	< 1e-05	mg/l	0.00001	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	0.000001	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	0.00001	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	0.00001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Benzo[b]fluoranthene	< 1e-05	mg/l	0.00001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Fluoranthene	< 1e-05	mg/l	0.00001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Benzo[k]fluoranthene	< 1e-05	mg/l	0.00001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Acenaphthylene	< 1e-05	mg/l	0.00001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Chrysene	< 1e-05	mg/l	0.00001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		PCB 118	< 1e-06	mg/l	0.000001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		PCB 153	< 1e-06	mg/l	0.000001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		PCB 138	< 1e-06	mg/l	0.000001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		PCB 180	< 1e-06	mg/l	0.000001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		PCB 52	< 1e-06	mg/l	0.000001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		PCB 90+101	< 1e-06	mg/l	0.000001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)

Appendix I.3

Table 1 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	0.00001	284419.6	210543.6	0.00001	NO	NO	1	POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Dibenz(a,h)Anthracene	< 1e-05	mg/l	0.00001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Benzo[a]anthracene	< 1e-05	mg/l	0.00001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		PCB 28	< 1e-06	mg/l	0.000001	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	0.00005	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	3	NO	NO	0	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	0.00001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Phenanthrene	< 1e-05	mg/l	0.00001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Fluorene	< 1e-05	mg/l	0.00001	284419.6	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1		Naphthalene	< 1e-05	mg/l	0.00001	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 1 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	0.00001	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	0.00001	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	0.000001	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	0.00001	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	0.00001	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	0.00001	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	0.00001	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	0.00001	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	0.00001	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	0.00001	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	0.000001	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	0.000001	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	0.000001	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	0.000001	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	0.000001	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	0.000001	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	0.00001	284419.6	210543.6	0.00001	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	0.00001	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	0.00001	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	0.000001	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	0.00005	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	3	NO	NO	0.01	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	0.00001	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	0.00001	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	0.00001	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	0.00001	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 1 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	0.00001	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	0.00005	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 1 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	3	NO	NO	0	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	0.00001	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	0.00005	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	3	NO	NO	0	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 1 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	0.00001	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	0.00005	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	3	NO	NO	0	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 1 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	0.00001	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	0.00005	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	3	NO	NO	0	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	0.00001	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	0.00005	284544.5	210695.4	0.001	NO	NO	0.05	POINT (284544.49 210695.4)

Appendix I.3

Table 1 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	3	NO	NO	0	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	0.00001	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	0.00005	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	3	NO	NO	0	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 1 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	0.00001	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	0.00005	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	3	NO	NO	0	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 1 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	0.00001	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	0.00005	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	3	NO	NO	0	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 1 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	0.00001	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	0.00005	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	3	NO	NO	0	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	0.00001	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	0.00005	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 1 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	3	NO	NO	0	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	0.00001	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	0.00005	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	3	NO	NO	0	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 1 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	0.00001	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	0.00005	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	3	NO	NO	0	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 1 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	0.00001	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	0.00005	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	3	NO	NO	0	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	0.00001	YES	NO	10	POINT (284799.55 210645.61)

Appendix I.3

Table 1 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	0.00005	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	3	NO	NO	0	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	0.00001	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	0.00005	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 1 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	3	NO	NO	0	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	0.00001	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	0.00005	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	3	NO	NO	0	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 1 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	0.00001	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	0.00005	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	3	NO	NO	0	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 1 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	0.00001	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	0.00005	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	3	NO	NO	0	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	0.00001	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 1 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	0.00005	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	3	NO	NO	0	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	0.00001	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	0.00005	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	3	NO	NO	0	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 1 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	0.00001	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	0.00005	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	3	NO	NO	0	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 1 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	0.00001	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	0.00005	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	3	NO	NO	0.01	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 1 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	0.00001	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	0.00005	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	3	NO	NO	0	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	0.00001	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	0.00005	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 1 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	3	NO	NO	0	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	0.00001	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	0.00005	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	3	NO	NO	0	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 1 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	0.00004	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	0.00004	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	0.00004	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	0.00004	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	0.00004	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	0.00004	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	0.00004	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	0.00004	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	0.00004	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	0.00004	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	0.00004	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	0.00004	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 1 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 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	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/l	10	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Sulphate	6.3	mg/l	1	284719.48	210705.39	400	NO	NO	0.02	POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Chloride	16	mg/l	1	284719.48	210705.39	250	NO	NO	0.06	POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Fluoride	0.29	mg/l	0.05	284719.48	210705.39	1	NO	NO	0.29	POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Cyanide (Total)	< 0.05	mg/l	0.05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Magnesium	11	mg/l	0.2	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Potassium	11	mg/l	0.5	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Sodium	46	mg/l	1.5	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Calcium	40	mg/l	2	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Ammonia (Free)	< 0.05	mg/l	0.05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Total Phenols	< 0.03	mg/l	0.03	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Total Hardness as CaCO3	140	mg/l	15	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Nitrate	1.7	mg/l	0.5	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Dissolved Organic Carbon	65	mg/l	2	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Ethylbenzene	< 0.001	mg/l	0.001	284719.48	210705.39	0.02	NO	NO	0.05	POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Toluene	< 0.001	mg/l	0.001	284719.48	210705.39	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	284719.48	210705.39	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	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284719.48	210705.39		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	284719.48	210705.39		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	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Fluoranthene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39	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	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Chrysene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	PCB 118	< 1e-06	mg/l	1.00E-06	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	PCB 153	< 1e-06	mg/l	1.00E-06	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	PCB 138	< 1e-06	mg/l	1.00E-06	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	PCB 180	< 1e-06	mg/l	1.00E-06	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	PCB 52	< 1e-06	mg/l	1.00E-06	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	PCB 90+101	< 1e-06	mg/l	1.00E-06	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39	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	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	PCB 28	< 1e-06	mg/l	1.00E-06	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Benzene	< 0.001	mg/l	0.001	284719.48	210705.39	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	284719.48	210705.39	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	284719.48	210705.39	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	284719.48	210705.39	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	284719.48	210705.39	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	284719.48	210705.39	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	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Copper (Dissolved)	0.00098	mg/l	0.0005	284719.48	210705.39	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	284719.48	210705.39	0.0137	NO	YES	1.17	POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Acenaphthene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	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	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Fluorene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Naphthalene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39	0.002	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.83	1	o-Xylene	< 0.001	mg/l	0.001	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284719.48	210705.39	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	284719.48	210705.39	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	284719.48	210705.39	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	284719.48	210705.39	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	284719.48	210705.39	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	284719.48	210705.39	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	284719.48	210705.39	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	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284719.48	210705.39	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	284719.48	210705.39	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	284719.48	210705.39	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	284719.48	210705.39	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	284719.48	210705.39	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	284719.48	210705.39	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	284719.48	210705.39	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	284719.48	210705.39	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	284719.48	210705.39	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	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.83	1	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Alkalinity (Bicarbonate)	320	mg CaCO3/l	10	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Sulphate	2.1	mg/l	1	284719.48	210705.39	400	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Chloride	18	mg/l	1	284719.48	210705.39	250	NO	NO	0.07	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Fluoride	0.35	mg/l	0.05	284719.48	210705.39	1	NO	NO	0.35	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Cyanide (Total)	< 0.05	mg/l	0.05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Magnesium	11	mg/l	0.2	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Potassium	11	mg/l	0.5	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Sodium	44	mg/l	1.5	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Calcium	36	mg/l	2	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Ammonia (Free)	< 0.05	mg/l	0.05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Total Phenols	< 0.03	mg/l	0.03	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Total Hardness as CaCO3	140	mg/l	15	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Nitrate	< 0.5	mg/l	0.5	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Dissolved Organic Carbon	61	mg/l	2	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Ethylbenzene	< 0.001	mg/l	0.001	284719.48	210705.39	0.02	NO	NO	0.05	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Toluene	< 0.001	mg/l	0.001	284719.48	210705.39	0.074	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Anthracene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39	0.0001	NO	NO	0.1	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Pyrene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH29	230.74	0.76	2	Fluoranthene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39	6.30E-06	YES	NO	1.59	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Chrysene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	PCB 118	< 1e-06	mg/l	1.00E-06	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	PCB 153	< 1e-06	mg/l	1.00E-06	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	PCB 138	< 1e-06	mg/l	1.00E-06	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	PCB 180	< 1e-06	mg/l	1.00E-06	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	PCB 52	< 1e-06	mg/l	1.00E-06	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	PCB 90+101	< 1e-06	mg/l	1.00E-06	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39	1.70E-07	YES	NO	58.82	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	PCB 28	< 1e-06	mg/l	1.00E-06	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Benzene	< 0.001	mg/l	0.001	284719.48	210705.39	0.01	NO	NO	0.1	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284719.48	210705.39	0.0012	NO	NO	0.42	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284719.48	210705.39	7.00E-05	NO	NO	0.71	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Nickel (Dissolved)	0.0006	mg/l	0.0005	284719.48	210705.39	0.004	NO	NO	0.15	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Arsenic (Dissolved)	0.0011	mg/l	0.0002	284719.48	210705.39	0.05	NO	NO	0.02	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284719.48	210705.39	8.00E-05	YES	NO	1.38	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284719.48	210705.39	0.001	NO	NO	0.5	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Zinc (Dissolved)	0.0099	mg/l	0.0025	284719.48	210705.39	0.0137	NO	NO	0.72	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Acenaphthene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Phenanthrene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Fluorene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Naphthalene	< 1e-05	mg/l	1.00E-05	284719.48	210705.39	0.002	NO	NO	0	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	o-Xylene	< 0.001	mg/l	0.001	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284719.48	210705.39	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284719.48	210705.39	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284719.48	210705.39	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284719.48	210705.39	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284719.48	210705.39	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284719.48	210705.39	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284719.48	210705.39	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	m & p-Xylene	< 0.001	mg/l	0.001	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284719.48	210705.39	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284719.48	210705.39	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284719.48	210705.39	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284719.48	210705.39	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284719.48	210705.39	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284719.48	210705.39	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284719.48	210705.39	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284719.48	210705.39	0.01	NO	NO	0.01	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284719.48	210705.39	0.01	NO	NO	0.01	POINT (284719.48 210705.39)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH29	230.74	0.76	2	Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH30	239.1	3.2	1	Alkalinity (Bicarbonate)	300	mg CaCO3/l	10	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Sulphate	32	mg/l	1	284925.69	210549.41	400	NO	NO	0.08	POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Chloride	170	mg/l	1	284925.69	210549.41	250	NO	NO	0.68	POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Fluoride	0.14	mg/l	0.05	284925.69	210549.41	1	NO	NO	0.14	POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Cyanide (Total)	< 0.05	mg/l	0.05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Magnesium	16	mg/l	0.2	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Potassium	29	mg/l	0.5	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Sodium	93	mg/l	1.5	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Calcium	68	mg/l	2	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Ammonia (Free)	0.081	mg/l	0.05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Total Phenols	< 0.03	mg/l	0.03	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Total Hardness as CaCO3	240	mg/l	15	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Nitrate	< 0.5	mg/l	0.5	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Dissolved Organic Carbon	62	mg/l	2	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Ethylbenzene	< 0.001	mg/l	0.001	284925.69	210549.41	0.02	NO	NO	0.05	POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Toluene	< 0.001	mg/l	0.001	284925.69	210549.41	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	284925.69	210549.41	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	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284925.69	210549.41		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	284925.69	210549.41		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	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Fluoranthene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41	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	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Chrysene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	PCB 118	< 1e-06	mg/l	1.00E-06	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	PCB 153	< 1e-06	mg/l	1.00E-06	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	PCB 138	< 1e-06	mg/l	1.00E-06	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	PCB 180	< 1e-06	mg/l	1.00E-06	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	PCB 52	< 1e-06	mg/l	1.00E-06	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	PCB 90+101	< 1e-06	mg/l	1.00E-06	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41	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	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	PCB 28	< 1e-06	mg/l	1.00E-06	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Benzene	< 0.001	mg/l	0.001	284925.69	210549.41	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	284925.69	210549.41	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	284925.69	210549.41	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	284925.69	210549.41	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	284925.69	210549.41	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	284925.69	210549.41	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	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Copper (Dissolved)	0.0022	mg/l	0.0005	284925.69	210549.41	0.001	NO	YES	2.2	POINT (284925.69 210549.41)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	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	284925.69	210549.41	0.0137	NO	YES	1.24	POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Acenaphthene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Phenanthrene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Fluorene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Naphthalene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41	0.002	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.2	1	o-Xylene	< 0.001	mg/l	0.001	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284925.69	210549.41	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	284925.69	210549.41	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	284925.69	210549.41	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	284925.69	210549.41	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	284925.69	210549.41	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	284925.69	210549.41	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	284925.69	210549.41	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	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284925.69	210549.41	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	284925.69	210549.41	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	284925.69	210549.41	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	284925.69	210549.41	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	284925.69	210549.41	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	284925.69	210549.41	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	284925.69	210549.41	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	284925.69	210549.41	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	284925.69	210549.41	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	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.2	1	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Alkalinity (Bicarbonate)	360	mg CaCO3/l	10	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Sulphate	330	mg/l	1	284925.69	210549.41	400	NO	NO	0.82	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Chloride	38	mg/l	1	284925.69	210549.41	250	NO	NO	0.15	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Fluoride	0.13	mg/l	0.05	284925.69	210549.41	1	NO	NO	0.13	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Cyanide (Total)	< 0.05	mg/l	0.05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Magnesium	38	mg/l	0.2	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Potassium	8.9	mg/l	0.5	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Sodium	60	mg/l	1.5	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Calcium	110	mg/l	2	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Ammonia (Free)	< 0.05	mg/l	0.05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Total Phenols	< 0.03	mg/l	0.03	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Total Hardness as CaCO3	440	mg/l	15	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Nitrate	1.5	mg/l	0.5	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Dissolved Organic Carbon	71	mg/l	2	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Ethylbenzene	< 0.001	mg/l	0.001	284925.69	210549.41	0.02	NO	NO	0.05	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Toluene	< 0.001	mg/l	0.001	284925.69	210549.41	0.074	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Anthracene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41	0.0001	NO	NO	0.1	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Pyrene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH30	239.1	3.03	2	Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Fluoranthene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41	6.30E-06	YES	NO	1.59	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Chrysene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	PCB 118	< 1e-06	mg/l	1.00E-06	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	PCB 153	< 1e-06	mg/l	1.00E-06	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	PCB 138	< 1e-06	mg/l	1.00E-06	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	PCB 180	< 1e-06	mg/l	1.00E-06	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	PCB 52	< 1e-06	mg/l	1.00E-06	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	PCB 90+101	< 1e-06	mg/l	1.00E-06	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41	1.70E-07	YES	NO	58.82	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	PCB 28	< 1e-06	mg/l	1.00E-06	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Benzene	< 0.001	mg/l	0.001	284925.69	210549.41	0.01	NO	NO	0.1	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284925.69	210549.41	0.0012	NO	NO	0.42	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284925.69	210549.41	7.00E-05	NO	NO	0.71	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Nickel (Dissolved)	0.0047	mg/l	0.0005	284925.69	210549.41	0.004	NO	YES	1.18	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Arsenic (Dissolved)	0.00055	mg/l	0.0002	284925.69	210549.41	0.05	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284925.69	210549.41	8.00E-05	YES	NO	1.38	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Copper (Dissolved)	0.0011	mg/l	0.0005	284925.69	210549.41	0.001	NO	YES	1.1	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Zinc (Dissolved)	0.0053	mg/l	0.0025	284925.69	210549.41	0.0137	NO	NO	0.39	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Acenaphthene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Phenanthrene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Fluorene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Naphthalene	< 1e-05	mg/l	1.00E-05	284925.69	210549.41	0.002	NO	NO	0	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	o-Xylene	< 0.001	mg/l	0.001	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284925.69	210549.41	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284925.69	210549.41	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284925.69	210549.41	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284925.69	210549.41	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284925.69	210549.41	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284925.69	210549.41	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284925.69	210549.41	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	m & p-Xylene	< 0.001	mg/l	0.001	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284925.69	210549.41	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284925.69	210549.41	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284925.69	210549.41	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284925.69	210549.41	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284925.69	210549.41	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284925.69	210549.41	0.01	NO	NO	0.01	POINT (284925.69 210549.41)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH30	239.1	3.03	2	Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284925.69	210549.41	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284925.69	210549.41	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284925.69	210549.41	0.01	NO	NO	0.01	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH31	238.61	4.5	1	Alkalinity (Bicarbonate)	370	mg CaCO3/l	10	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Sulphate	310	mg/l	1	284880.77	210454.81	400	NO	NO	0.78	POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Chloride	49	mg/l	1	284880.77	210454.81	250	NO	NO	0.2	POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Fluoride	0.12	mg/l	0.05	284880.77	210454.81	1	NO	NO	0.12	POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Cyanide (Total)	< 0.05	mg/l	0.05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Magnesium	38	mg/l	0.2	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Potassium	11	mg/l	0.5	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Sodium	75	mg/l	1.5	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Calcium	120	mg/l	2	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Ammonia (Free)	0.073	mg/l	0.05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Total Phenols	< 0.03	mg/l	0.03	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Total Hardness as CaCO3	450	mg/l	15	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Nitrate	1.4	mg/l	0.5	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Dissolved Organic Carbon	82	mg/l	2	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Ethylbenzene	< 0.001	mg/l	0.001	284880.77	210454.81	0.02	NO	NO	0.05	POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Toluene	< 0.001	mg/l	0.001	284880.77	210454.81	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	284880.77	210454.81	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	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284880.77	210454.81		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	284880.77	210454.81		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	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Fluoranthene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81	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	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Chrysene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	PCB 118	< 1e-06	mg/l	1.00E-06	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	PCB 153	< 1e-06	mg/l	1.00E-06	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	PCB 138	< 1e-06	mg/l	1.00E-06	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	PCB 180	< 1e-06	mg/l	1.00E-06	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	PCB 52	< 1e-06	mg/l	1.00E-06	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	PCB 90+101	< 1e-06	mg/l	1.00E-06	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81	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	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	PCB 28	< 1e-06	mg/l	1.00E-06	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Benzene	< 0.001	mg/l	0.001	284880.77	210454.81	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	284880.77	210454.81	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	284880.77	210454.81	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	284880.77	210454.81	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	284880.77	210454.81	0.05	NO	NO	0.01	POINT (284880.77 210454.81)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	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	284880.77	210454.81	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	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Copper (Dissolved)	0.0024	mg/l	0.0005	284880.77	210454.81	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	284880.77	210454.81	0.0137	NO	NO	0.8	POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Acenaphthene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Phenanthrene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Fluorene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Naphthalene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81	0.002	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.5	1	o-Xylene	< 0.001	mg/l	0.001	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284880.77	210454.81	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	284880.77	210454.81	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	284880.77	210454.81	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	284880.77	210454.81	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	284880.77	210454.81	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	284880.77	210454.81	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	284880.77	210454.81	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	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284880.77	210454.81	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	284880.77	210454.81	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	284880.77	210454.81	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	284880.77	210454.81	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	284880.77	210454.81	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	284880.77	210454.81	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	284880.77	210454.81	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	284880.77	210454.81	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	284880.77	210454.81	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	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.5	1	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Alkalinity (Bicarbonate)	410	mg CaCO3/l	10	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Sulphate	110	mg/l	1	284880.77	210454.81	400	NO	NO	0.28	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Chloride	33	mg/l	1	284880.77	210454.81	250	NO	NO	0.13	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Fluoride	0.2	mg/l	0.05	284880.77	210454.81	1	NO	NO	0.2	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Cyanide (Total)	< 0.05	mg/l	0.05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Magnesium	30	mg/l	0.2	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Potassium	18	mg/l	0.5	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Sodium	62	mg/l	1.5	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Calcium	63	mg/l	2	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Ammonia (Free)	< 0.05	mg/l	0.05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Total Phenols	< 0.03	mg/l	0.03	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Total Hardness as CaCO3	280	mg/l	15	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Nitrate	0.58	mg/l	0.5	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Dissolved Organic Carbon	78	mg/l	2	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Ethylbenzene	< 0.001	mg/l	0.001	284880.77	210454.81	0.02	NO	NO	0.05	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Toluene	< 0.001	mg/l	0.001	284880.77	210454.81	0.074	NO	NO	0.01	POINT (284880.77 210454.81)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH31	238.61	4.62	2	Anthracene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81	0.0001	NO	NO	0.1	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Pyrene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Fluoranthene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81	6.30E-06	YES	NO	1.59	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Chrysene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	PCB 118	< 1e-06	mg/l	1.00E-06	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	PCB 153	< 1e-06	mg/l	1.00E-06	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	PCB 138	< 1e-06	mg/l	1.00E-06	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	PCB 180	< 1e-06	mg/l	1.00E-06	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	PCB 52	< 1e-06	mg/l	1.00E-06	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	PCB 90+101	< 1e-06	mg/l	1.00E-06	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81	1.70E-07	YES	NO	58.82	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	PCB 28	< 1e-06	mg/l	1.00E-06	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Benzene	< 0.001	mg/l	0.001	284880.77	210454.81	0.01	NO	NO	0.1	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284880.77	210454.81	0.0012	NO	NO	0.42	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284880.77	210454.81	7.00E-05	NO	NO	0.71	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Nickel (Dissolved)	0.0033	mg/l	0.0005	284880.77	210454.81	0.004	NO	NO	0.82	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Arsenic (Dissolved)	0.00025	mg/l	0.0002	284880.77	210454.81	0.05	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284880.77	210454.81	8.00E-05	YES	NO	1.38	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Copper (Dissolved)	0.00069	mg/l	0.0005	284880.77	210454.81	0.001	NO	NO	0.69	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Zinc (Dissolved)	0.034	mg/l	0.0025	284880.77	210454.81	0.0137	NO	YES	2.48	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Selenium (Dissolved)	0.0012	mg/l	0.0005	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Acenaphthene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Phenanthrene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Fluorene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Naphthalene	< 1e-05	mg/l	1.00E-05	284880.77	210454.81	0.002	NO	NO	0	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	o-Xylene	< 0.001	mg/l	0.001	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284880.77	210454.81	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284880.77	210454.81	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284880.77	210454.81	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284880.77	210454.81	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284880.77	210454.81	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284880.77	210454.81	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284880.77	210454.81	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	m & p-Xylene	< 0.001	mg/l	0.001	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284880.77	210454.81	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284880.77	210454.81	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284880.77	210454.81	0.01	NO	NO	0.01	POINT (284880.77 210454.81)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH31	238.61	4.62	2	Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284880.77	210454.81	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284880.77	210454.81	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284880.77	210454.81	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284880.77	210454.81	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284880.77	210454.81	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284880.77	210454.81	0.01	NO	NO	0.01	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH32	244.73	4.76	1	Alkalinity (Bicarbonate)	340	mg CaCO3/l	10	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Sulphate	67	mg/l	1	284967.95	210230.01	400	NO	NO	0.17	POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Chloride	51	mg/l	1	284967.95	210230.01	250	NO	NO	0.2	POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Fluoride	0.18	mg/l	0.05	284967.95	210230.01	1	NO	NO	0.18	POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Cyanide (Total)	< 0.05	mg/l	0.05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Magnesium	13	mg/l	0.2	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Potassium	17	mg/l	0.5	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Sodium	100	mg/l	1.5	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Calcium	43	mg/l	2	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Ammonia (Free)	< 0.05	mg/l	0.05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Total Phenols	< 0.03	mg/l	0.03	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Total Hardness as CaCO3	160	mg/l	15	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Nitrate	0.88	mg/l	0.5	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Dissolved Organic Carbon	73	mg/l	2	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Ethylbenzene	< 0.001	mg/l	0.001	284967.95	210230.01	0.02	NO	NO	0.05	POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Toluene	< 0.001	mg/l	0.001	284967.95	210230.01	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	284967.95	210230.01	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	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284967.95	210230.01		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	284967.95	210230.01		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	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Fluoranthene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01	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	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Chrysene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	PCB 118	< 1e-06	mg/l	1.00E-06	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	PCB 153	< 1e-06	mg/l	1.00E-06	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	PCB 138	< 1e-06	mg/l	1.00E-06	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	PCB 180	< 1e-06	mg/l	1.00E-06	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	PCB 52	< 1e-06	mg/l	1.00E-06	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	PCB 90+101	< 1e-06	mg/l	1.00E-06	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01	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	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	PCB 28	< 1e-06	mg/l	1.00E-06	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Benzene	< 0.001	mg/l	0.001	284967.95	210230.01	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	284967.95	210230.01	0.0012	NO	NO	0.42	POINT (284967.95 210230.01)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	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	284967.95	210230.01	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	284967.95	210230.01	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	284967.95	210230.01	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	284967.95	210230.01	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	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Copper (Dissolved)	0.0033	mg/l	0.0005	284967.95	210230.01	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	284967.95	210230.01	0.0137	NO	YES	2.41	POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Selenium (Dissolved)	0.0014	mg/l	0.0005	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Acenaphthene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Phenanthrene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Fluorene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Naphthalene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01	0.002	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.76	1	o-Xylene	< 0.001	mg/l	0.001	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284967.95	210230.01	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	284967.95	210230.01	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	284967.95	210230.01	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	284967.95	210230.01	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	284967.95	210230.01	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	284967.95	210230.01	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	284967.95	210230.01	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	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284967.95	210230.01	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	284967.95	210230.01	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	284967.95	210230.01	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	284967.95	210230.01	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	284967.95	210230.01	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	284967.95	210230.01	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	284967.95	210230.01	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	284967.95	210230.01	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	284967.95	210230.01	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	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.76	1	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Alkalinity (Bicarbonate)	230	mg CaCO3/l	10	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Sulphate	3	mg/l	1	284967.95	210230.01	400	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Chloride	250	mg/l	1	284967.95	210230.01	250	NO	NO	1	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Fluoride	0.15	mg/l	0.05	284967.95	210230.01	1	NO	NO	0.15	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Cyanide (Total)	< 0.05	mg/l	0.05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Magnesium	32	mg/l	0.2	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Potassium	77	mg/l	0.5	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Sodium	45	mg/l	1.5	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Calcium	62	mg/l	2	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Ammonia (Free)	0.059	mg/l	0.05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Total Phenols	< 0.03	mg/l	0.03	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Total Hardness as CaCO3	290	mg/l	15	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Nitrate	< 0.5	mg/l	0.5	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH32	244.73	4.28	2	Dissolved Organic Carbon	57	mg/l	2	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Ethylbenzene	< 0.001	mg/l	0.001	284967.95	210230.01	0.02	NO	NO	0.05	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Toluene	< 0.001	mg/l	0.001	284967.95	210230.01	0.074	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Anthracene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01	0.0001	NO	NO	0.1	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Pyrene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Fluoranthene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01	6.30E-06	YES	NO	1.59	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Chrysene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	PCB 118	< 1e-06	mg/l	1.00E-06	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	PCB 153	< 1e-06	mg/l	1.00E-06	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	PCB 138	< 1e-06	mg/l	1.00E-06	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	PCB 180	< 1e-06	mg/l	1.00E-06	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	PCB 52	< 1e-06	mg/l	1.00E-06	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	PCB 90+101	< 1e-06	mg/l	1.00E-06	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01	1.70E-07	YES	NO	58.82	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	PCB 28	< 1e-06	mg/l	1.00E-06	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Benzene	< 0.001	mg/l	0.001	284967.95	210230.01	0.01	NO	NO	0.1	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284967.95	210230.01	0.0012	NO	NO	0.42	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284967.95	210230.01	7.00E-05	NO	NO	0.71	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Nickel (Dissolved)	0.0012	mg/l	0.0005	284967.95	210230.01	0.004	NO	NO	0.3	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284967.95	210230.01	0.05	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284967.95	210230.01	8.00E-05	YES	NO	1.38	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284967.95	210230.01	0.001	NO	NO	0.5	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Zinc (Dissolved)	0.0083	mg/l	0.0025	284967.95	210230.01	0.0137	NO	NO	0.61	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Acenaphthene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Phenanthrene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Fluorene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Naphthalene	< 1e-05	mg/l	1.00E-05	284967.95	210230.01	0.002	NO	NO	0	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	o-Xylene	< 0.001	mg/l	0.001	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284967.95	210230.01	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284967.95	210230.01	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284967.95	210230.01	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284967.95	210230.01	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284967.95	210230.01	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284967.95	210230.01	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284967.95	210230.01	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	m & p-Xylene	< 0.001	mg/l	0.001	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH32	244.73	4.28	2	Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284967.95	210230.01	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284967.95	210230.01	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284967.95	210230.01	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284967.95	210230.01	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284967.95	210230.01	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284967.95	210230.01	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284967.95	210230.01	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284967.95	210230.01	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284967.95	210230.01	0.01	NO	NO	0.01	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH33	230.51	0.41	1	Alkalinity (Bicarbonate)	440	mg CaCO3/l	10	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Sulphate	60	mg/l	1	284397.04	210700.88	400	NO	NO	0.15	POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Chloride	17	mg/l	1	284397.04	210700.88	250	NO	NO	0.07	POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Fluoride	0.15	mg/l	0.05	284397.04	210700.88	1	NO	NO	0.15	POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Cyanide (Total)	< 0.05	mg/l	0.05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Magnesium	18	mg/l	0.2	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Potassium	40	mg/l	0.5	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Sodium	97	mg/l	1.5	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Calcium	47	mg/l	2	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Ammonia (Free)	0.14	mg/l	0.05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Total Phenols	< 0.03	mg/l	0.03	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Total Hardness as CaCO3	190	mg/l	15	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Nitrate	< 0.5	mg/l	0.5	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Dissolved Organic Carbon	100	mg/l	2	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Ethylbenzene	< 0.001	mg/l	0.001	284397.04	210700.88	0.02	NO	NO	0.05	POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Toluene	< 0.001	mg/l	0.001	284397.04	210700.88	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	284397.04	210700.88	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	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284397.04	210700.88		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	284397.04	210700.88		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	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Fluoranthene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88	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	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Chrysene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	PCB 118	< 1e-06	mg/l	1.00E-06	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	PCB 153	< 1e-06	mg/l	1.00E-06	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	PCB 138	< 1e-06	mg/l	1.00E-06	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	PCB 180	< 1e-06	mg/l	1.00E-06	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	PCB 52	< 1e-06	mg/l	1.00E-06	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	PCB 90+101	< 1e-06	mg/l	1.00E-06	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88	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	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	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	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Benzene	< 0.001	mg/l	0.001	284397.04	210700.88	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	284397.04	210700.88	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	284397.04	210700.88	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	284397.04	210700.88	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	284397.04	210700.88	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	284397.04	210700.88	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	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Copper (Dissolved)	0.0012	mg/l	0.0005	284397.04	210700.88	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	284397.04	210700.88	0.0137	NO	YES	1.53	POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Acenaphthene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Phenanthrene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Fluorene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Naphthalene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88	0.002	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.41	1	o-Xylene	< 0.001	mg/l	0.001	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284397.04	210700.88	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	284397.04	210700.88	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	284397.04	210700.88	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	284397.04	210700.88	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	284397.04	210700.88	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	284397.04	210700.88	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	284397.04	210700.88	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	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284397.04	210700.88	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	284397.04	210700.88	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	284397.04	210700.88	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	284397.04	210700.88	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	284397.04	210700.88	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	284397.04	210700.88	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	284397.04	210700.88	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	284397.04	210700.88	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	284397.04	210700.88	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	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.41	1	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Alkalinity (Bicarbonate)	380	mg CaCO3/l	10	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Sulphate	66	mg/l	1	284397.04	210700.88	400	NO	NO	0.16	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Chloride	16	mg/l	1	284397.04	210700.88	250	NO	NO	0.06	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Fluoride	0.15	mg/l	0.05	284397.04	210700.88	1	NO	NO	0.15	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Cyanide (Total)	< 0.05	mg/l	0.05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Magnesium	18	mg/l	0.2	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Potassium	40	mg/l	0.5	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Sodium	81	mg/l	1.5	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Calcium	46	mg/l	2	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Ammonia (Free)	< 0.05	mg/l	0.05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH33	230.51	0.12	2	Total Phenols	< 0.03	mg/l	0.03	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Total Hardness as CaCO3	190	mg/l	15	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Nitrate	< 0.5	mg/l	0.5	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Dissolved Organic Carbon	92	mg/l	2	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Ethylbenzene	< 0.001	mg/l	0.001	284397.04	210700.88	0.02	NO	NO	0.05	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Toluene	< 0.001	mg/l	0.001	284397.04	210700.88	0.074	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Anthracene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88	0.0001	NO	NO	0.1	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Pyrene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Fluoranthene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88	6.30E-06	YES	NO	1.59	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Chrysene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	PCB 118	< 1e-06	mg/l	1.00E-06	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	PCB 153	< 1e-06	mg/l	1.00E-06	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	PCB 138	< 1e-06	mg/l	1.00E-06	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	PCB 180	< 1e-06	mg/l	1.00E-06	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	PCB 52	< 1e-06	mg/l	1.00E-06	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	PCB 90+101	< 1e-06	mg/l	1.00E-06	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88	1.70E-07	YES	NO	58.82	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	PCB 28	< 1e-06	mg/l	1.00E-06	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Benzene	< 0.001	mg/l	0.001	284397.04	210700.88	0.01	NO	NO	0.1	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284397.04	210700.88	0.0012	NO	NO	0.42	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284397.04	210700.88	7.00E-05	NO	NO	0.71	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Nickel (Dissolved)	0.0016	mg/l	0.0005	284397.04	210700.88	0.004	NO	NO	0.4	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Arsenic (Dissolved)	0.00043	mg/l	0.0002	284397.04	210700.88	0.05	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284397.04	210700.88	8.00E-05	YES	NO	1.38	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284397.04	210700.88	0.001	NO	NO	0.5	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Zinc (Dissolved)	0.012	mg/l	0.0025	284397.04	210700.88	0.0137	NO	NO	0.88	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Acenaphthene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Phenanthrene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Fluorene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Naphthalene	< 1e-05	mg/l	1.00E-05	284397.04	210700.88	0.002	NO	NO	0	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	o-Xylene	< 0.001	mg/l	0.001	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284397.04	210700.88	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284397.04	210700.88	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284397.04	210700.88	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284397.04	210700.88	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284397.04	210700.88	0.01	NO	NO	0.01	POINT (284397.04 210700.88)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH33	230.51	0.12	2	Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284397.04	210700.88	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284397.04	210700.88	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	m & p-Xylene	< 0.001	mg/l	0.001	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284397.04	210700.88	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284397.04	210700.88	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284397.04	210700.88	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284397.04	210700.88	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284397.04	210700.88	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284397.04	210700.88	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284397.04	210700.88	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284397.04	210700.88	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284397.04	210700.88	0.01	NO	NO	0.01	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH34	232.64	5.09	1	Alkalinity (Bicarbonate)	320	mg CaCO3/l	10	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Sulphate	49	mg/l	1	284419.61	210543.6	400	NO	NO	0.12	POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Chloride	28	mg/l	1	284419.61	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	284419.61	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	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Magnesium	28	mg/l	0.2	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Potassium	8.3	mg/l	0.5	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Sodium	71	mg/l	1.5	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Calcium	11	mg/l	2	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Ammonia (Free)	0.5	mg/l	0.05	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Total Phenols	< 0.03	mg/l	0.03	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Total Hardness as CaCO3	140	mg/l	15	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Nitrate	< 0.5	mg/l	0.5	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Dissolved Organic Carbon	67	mg/l	2	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Ethylbenzene	< 0.001	mg/l	0.001	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Fluoranthene	< 1e-05	mg/l	1.00E-05	284419.61	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	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Chrysene	< 1e-05	mg/l	1.00E-05	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	PCB 118	< 1e-06	mg/l	1.00E-06	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	PCB 153	< 1e-06	mg/l	1.00E-06	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	PCB 138	< 1e-06	mg/l	1.00E-06	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	PCB 180	< 1e-06	mg/l	1.00E-06	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	PCB 52	< 1e-06	mg/l	1.00E-06	284419.61	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	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	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	284419.61	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	284419.61	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	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	PCB 28	< 1e-06	mg/l	1.00E-06	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Benzene	< 0.001	mg/l	0.001	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Copper (Dissolved)	0.00058	mg/l	0.0005	284419.61	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	284419.61	210543.6	0.0137	NO	NO	0.88	POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Acenaphthene	< 1e-05	mg/l	1.00E-05	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Phenanthrene	< 1e-05	mg/l	1.00E-05	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Fluorene	< 1e-05	mg/l	1.00E-05	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Naphthalene	< 1e-05	mg/l	1.00E-05	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	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	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	5.09	1	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Alkalinity (Bicarbonate)	270	mg CaCO3/l	10	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Sulphate	40	mg/l	1	284419.61	210543.6	400	NO	NO	0.1	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Chloride	28	mg/l	1	284419.61	210543.6	250	NO	NO	0.11	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Fluoride	0.16	mg/l	0.05	284419.61	210543.6	1	NO	NO	0.16	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Cyanide (Total)	< 0.05	mg/l	0.05	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Magnesium	26	mg/l	0.2	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Potassium	7.8	mg/l	0.5	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH34	232.64	4.76	2	Sodium	66	mg/l	1.5	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Calcium	10	mg/l	2	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Ammonia (Free)	0.089	mg/l	0.05	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Total Phenols	< 0.03	mg/l	0.03	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Total Hardness as CaCO3	130	mg/l	15	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Nitrate	< 0.5	mg/l	0.5	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Dissolved Organic Carbon	64	mg/l	2	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Ethylbenzene	< 0.001	mg/l	0.001	284419.61	210543.6	0.02	NO	NO	0.05	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Toluene	< 0.001	mg/l	0.001	284419.61	210543.6	0.074	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Anthracene	< 1e-05	mg/l	1.00E-05	284419.61	210543.6	0.0001	NO	NO	0.1	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Pyrene	< 1e-05	mg/l	1.00E-05	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Total PCBs (7 congeners)	< 1e-06	mg/l	1.00E-06	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Benzo[g,h,i]perylene	< 1e-05	mg/l	1.00E-05	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Indeno(1,2,3-c,d)Pyrene	< 1e-05	mg/l	1.00E-05	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Benzo[b]fluoranthene	< 1e-05	mg/l	1.00E-05	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Fluoranthene	< 1e-05	mg/l	1.00E-05	284419.61	210543.6	6.30E-06	YES	NO	1.59	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Benzo[k]fluoranthene	< 1e-05	mg/l	1.00E-05	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Acenaphthylene	< 1e-05	mg/l	1.00E-05	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Chrysene	< 1e-05	mg/l	1.00E-05	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	PCB 118	< 1e-06	mg/l	1.00E-06	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	PCB 153	< 1e-06	mg/l	1.00E-06	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	PCB 138	< 1e-06	mg/l	1.00E-06	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	PCB 180	< 1e-06	mg/l	1.00E-06	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	PCB 52	< 1e-06	mg/l	1.00E-06	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	PCB 90+101	< 1e-06	mg/l	1.00E-06	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Benzo[a]pyrene	< 1e-05	mg/l	1.00E-05	284419.61	210543.6	1.70E-07	YES	NO	58.82	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Dibenz(a,h)Anthracene	< 1e-05	mg/l	1.00E-05	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Benzo[a]anthracene	< 1e-05	mg/l	1.00E-05	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	PCB 28	< 1e-06	mg/l	1.00E-06	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Benzene	< 0.001	mg/l	0.001	284419.61	210543.6	0.01	NO	NO	0.1	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284419.61	210543.6	0.0012	NO	NO	0.42	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284419.61	210543.6	7.00E-05	NO	NO	0.71	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Nickel (Dissolved)	0.0018	mg/l	0.0005	284419.61	210543.6	0.004	NO	NO	0.45	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284419.61	210543.6	0.05	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284419.61	210543.6	8.00E-05	YES	NO	1.38	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Copper (Dissolved)	0.00055	mg/l	0.0005	284419.61	210543.6	0.001	NO	NO	0.55	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Zinc (Dissolved)	0.017	mg/l	0.0025	284419.61	210543.6	0.0137	NO	YES	1.24	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Acenaphthene	< 1e-05	mg/l	1.00E-05	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Phenanthrene	< 1e-05	mg/l	1.00E-05	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Fluorene	< 1e-05	mg/l	1.00E-05	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Naphthalene	< 1e-05	mg/l	1.00E-05	284419.61	210543.6	0.002	NO	NO	0	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	o-Xylene	< 0.001	mg/l	0.001	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Total Of 16 PAH's	< 0.0002	mg/l	0.0002	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Aromatic TPH >C7-C8	< 0.0001	mg/l	0.0001	284419.61	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Aromatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284419.61	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH34	232.64	4.76	2	Aromatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284419.61	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Aromatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284419.61	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Aromatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284419.61	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Aromatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284419.61	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Aromatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284419.61	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	m & p-Xylene	< 0.001	mg/l	0.001	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Aliphatic TPH >C5-C6	< 0.0001	mg/l	0.0001	284419.61	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Aliphatic TPH >C6-C8	< 0.0001	mg/l	0.0001	284419.61	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Aliphatic TPH >C8-C10	< 0.0001	mg/l	0.0001	284419.61	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Aliphatic TPH >C10-C12	< 0.0001	mg/l	0.0001	284419.61	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Aliphatic TPH >C12-C16	< 0.0001	mg/l	0.0001	284419.61	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Aliphatic TPH >C16-C21	< 0.0001	mg/l	0.0001	284419.61	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Aliphatic TPH >C21-C35	< 0.0001	mg/l	0.0001	284419.61	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Aliphatic TPH >C35-C44	< 0.0001	mg/l	0.0001	284419.61	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Aromatic TPH >C5-C7	< 0.0001	mg/l	0.0001	284419.61	210543.6	0.01	NO	NO	0.01	POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Total Petroleum Hydrocarbons	< 0.01	mg/l	0.01	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Total Aliphatic Hydrocarbons	< 0.005	mg/l	0.005	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	Total Aromatic Hydrocarbons	< 0.005	mg/l	0.005	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
S1-BH101	241.16	13.51	45	Sulphate	130	mg/l	1	284925.38	210692.01	400	NO	NO	0.32	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Cyanide (Total)	< 0.05	mg/l	0.05	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Calcium (Dissolved)	60	mg/l	2	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Cyanide (Free)	< 0.05	mg/l	0.05	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Total Phenols	< 0.03	mg/l	0.03	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Total Hardness as CaCO3	320	mg/l	15	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Dissolved Organic Carbon	< 2.0	mg/l	2	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Anthracene	< 0.0001	mg/l	0.0001	284925.38	210692.01	0.0001	NO	NO	1	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Pyrene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284925.38	210692.01	0.0034	YES	NO	5.88	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Fluoranthene	< 0.0001	mg/l	0.0001	284925.38	210692.01	6.30E-06	YES	NO	15.87	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Acenaphthylene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Chrysene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284925.38	210692.01	1.70E-07	YES	NO	588.24	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284925.38	210692.01	0.0012	NO	NO	0.42	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284925.38	210692.01	7.00E-05	NO	NO	0.71	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Nickel (Dissolved)	0.00091	mg/l	0.0005	284925.38	210692.01	0.004	NO	NO	0.23	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284925.38	210692.01	0.05	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Boron (Dissolved)	0.051	mg/l	0.01	284925.38	210692.01	2	NO	NO	0.03	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284925.38	210692.01	8.00E-05	YES	NO	1.38	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Chromium (Dissolved)	0.0026	mg/l	0.0005	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284925.38	210692.01	0.001	NO	NO	0.5	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284925.38	210692.01	0.02	NO	NO	0.02	POINT (284925.38 210692.01)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH101	241.16	13.51	45	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284925.38	210692.01	0.0137	NO	NO	0.18	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Selenium (Dissolved)	0.0027	mg/l	0.0005	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Acenaphthene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Phenanthrene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Fluorene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Naphthalene	< 0.0001	mg/l	0.0001	284925.38	210692.01	0.002	NO	NO	0.05	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Manganese (Dissolved)	0.35	mg/l	0.0005	284925.38	210692.01	0.123	NO	YES	2.85	POINT (284925.38 210692.01)
S1-BH101	241.16	13.51	45	Total Of 16 PAH's	< 0.002	mg/l	0.002	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Sulphate	110	mg/l	1	284925.38	210692.01	400	NO	NO	0.28	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Cyanide (Total)	< 0.05	mg/l	0.05	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Calcium (Dissolved)	59	mg/l	2	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Cyanide (Free)	< 0.05	mg/l	0.05	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Total Phenols	< 0.03	mg/l	0.03	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Total Hardness as CaCO3	320	mg/l	15	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Dissolved Organic Carbon	< 2.0	mg/l	2	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Anthracene	< 0.0001	mg/l	0.0001	284925.38	210692.01	0.0001	NO	NO	1	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Pyrene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284925.38	210692.01	0.0034	YES	NO	5.88	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Fluoranthene	< 0.0001	mg/l	0.0001	284925.38	210692.01	6.30E-06	YES	NO	15.87	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Acenaphthylene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Chrysene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284925.38	210692.01	1.70E-07	YES	NO	588.24	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284925.38	210692.01	0.0012	NO	NO	0.42	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284925.38	210692.01	7.00E-05	NO	NO	0.71	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Nickel (Dissolved)	0.00057	mg/l	0.0005	284925.38	210692.01	0.004	NO	NO	0.14	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284925.38	210692.01	0.05	NO	NO	0	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Boron (Dissolved)	0.045	mg/l	0.01	284925.38	210692.01	2	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284925.38	210692.01	8.00E-05	YES	NO	1.38	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Chromium (Dissolved)	0.0022	mg/l	0.0005	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284925.38	210692.01	0.001	NO	NO	0.5	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284925.38	210692.01	0.02	NO	NO	0.02	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Zinc (Dissolved)	0.0026	mg/l	0.0025	284925.38	210692.01	0.0137	NO	NO	0.19	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Acenaphthene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Phenanthrene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Fluorene	< 0.0001	mg/l	0.0001	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Naphthalene	< 0.0001	mg/l	0.0001	284925.38	210692.01	0.002	NO	NO	0.05	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Manganese (Dissolved)	0.25	mg/l	0.0005	284925.38	210692.01	0.123	NO	YES	2.03	POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	Total Of 16 PAH's	< 0.002	mg/l	0.002	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH102	230.73	8.72	28	Sulphate	140	mg/l	1	284544.49	210695.4	400	NO	NO	0.35	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Cyanide (Total)	0.06	mg/l	0.05	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH102	230.73	8.72	28	Calcium (Dissolved)	190	mg/l	2	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Cyanide (Free)	< 0.05	mg/l	0.05	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Total Phenols	< 0.03	mg/l	0.03	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Total Hardness as CaCO3	820	mg/l	15	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Dissolved Organic Carbon	2.1	mg/l	2	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Anthracene	< 0.0001	mg/l	0.0001	284544.49	210695.4	0.0001	NO	NO	1	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Pyrene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284544.49	210695.4	0.0034	YES	NO	5.88	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Fluoranthene	< 0.0001	mg/l	0.0001	284544.49	210695.4	6.30E-06	YES	NO	15.87	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Acenaphthylene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Chrysene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284544.49	210695.4	1.70E-07	YES	NO	588.24	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284544.49	210695.4	0.0012	NO	NO	0.42	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284544.49	210695.4	7.00E-05	NO	NO	0.71	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Nickel (Dissolved)	0.0099	mg/l	0.0005	284544.49	210695.4	0.004	NO	YES	2.48	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Arsenic (Dissolved)	0.0012	mg/l	0.0002	284544.49	210695.4	0.05	NO	NO	0.02	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Boron (Dissolved)	0.073	mg/l	0.01	284544.49	210695.4	2	NO	NO	0.04	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284544.49	210695.4	8.00E-05	YES	NO	1.38	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Copper (Dissolved)	0.00074	mg/l	0.0005	284544.49	210695.4	0.001	NO	NO	0.74	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284544.49	210695.4	0.02	NO	NO	0.02	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284544.49	210695.4	0.0137	NO	NO	0.18	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Acenaphthene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Phenanthrene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Fluorene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Naphthalene	< 0.0001	mg/l	0.0001	284544.49	210695.4	0.002	NO	NO	0.05	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Manganese (Dissolved)	0.069	mg/l	0.0005	284544.49	210695.4	0.123	NO	NO	0.56	POINT (284544.49 210695.4)
S1-BH102	230.73	8.72	28	Total Of 16 PAH's	< 0.002	mg/l	0.002	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Sulphate	130	mg/l	1	284544.49	210695.4	400	NO	NO	0.32	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Cyanide (Total)	< 0.05	mg/l	0.05	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Calcium (Dissolved)	57	mg/l	2	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Cyanide (Free)	< 0.05	mg/l	0.05	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Total Phenols	< 0.03	mg/l	0.03	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Total Hardness as CaCO3	210	mg/l	15	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Dissolved Organic Carbon	< 2.0	mg/l	2	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Anthracene	< 0.0001	mg/l	0.0001	284544.49	210695.4	0.0001	NO	NO	1	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Pyrene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284544.49	210695.4	0.0034	YES	NO	5.88	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH102	230.73	8.85	29	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Fluoranthene	< 0.0001	mg/l	0.0001	284544.49	210695.4	6.30E-06	YES	NO	15.87	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Acenaphthylene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Chrysene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284544.49	210695.4	1.70E-07	YES	NO	588.24	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284544.49	210695.4	0.0012	NO	NO	0.42	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284544.49	210695.4	7.00E-05	NO	NO	0.71	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Nickel (Dissolved)	0.0096	mg/l	0.0005	284544.49	210695.4	0.004	NO	YES	2.4	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Arsenic (Dissolved)	0.00092	mg/l	0.0002	284544.49	210695.4	0.05	NO	NO	0.02	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Boron (Dissolved)	0.046	mg/l	0.01	284544.49	210695.4	2	NO	NO	0.02	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284544.49	210695.4	8.00E-05	YES	NO	1.38	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Chromium (Dissolved)	0.0024	mg/l	0.0005	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284544.49	210695.4	0.001	NO	NO	0.5	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284544.49	210695.4	0.02	NO	NO	0.02	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Zinc (Dissolved)	0.0046	mg/l	0.0025	284544.49	210695.4	0.0137	NO	NO	0.34	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Selenium (Dissolved)	0.0026	mg/l	0.0005	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Acenaphthene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Phenanthrene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Fluorene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Naphthalene	< 0.0001	mg/l	0.0001	284544.49	210695.4	0.002	NO	NO	0.05	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Manganese (Dissolved)	0.37	mg/l	0.0005	284544.49	210695.4	0.123	NO	YES	3.01	POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	Total Of 16 PAH's	< 0.002	mg/l	0.002	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Sulphate	76	mg/l	1	284544.49	210695.4	400	NO	NO	0.19	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Cyanide (Total)	< 0.05	mg/l	0.05	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Calcium (Dissolved)	35	mg/l	2	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Cyanide (Free)	< 0.05	mg/l	0.05	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Total Phenols	< 0.03	mg/l	0.03	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Total Hardness as CaCO3	130	mg/l	15	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Dissolved Organic Carbon	< 2.0	mg/l	2	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Anthracene	< 0.0001	mg/l	0.0001	284544.49	210695.4	0.0001	NO	NO	1	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Pyrene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284544.49	210695.4	0.0034	YES	NO	5.88	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Fluoranthene	< 0.0001	mg/l	0.0001	284544.49	210695.4	6.30E-06	YES	NO	15.87	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Acenaphthylene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Chrysene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284544.49	210695.4	1.70E-07	YES	NO	588.24	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284544.49	210695.4	0.0012	NO	NO	0.42	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284544.49	210695.4	7.00E-05	NO	NO	0.71	POINT (284544.49 210695.4)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH102	230.73	8.75	30	Nickel (Dissolved)	0.0039	mg/l	0.0005	284544.49	210695.4	0.004	NO	NO	0.98	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Arsenic (Dissolved)	0.0015	mg/l	0.0002	284544.49	210695.4	0.05	NO	NO	0.03	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Boron (Dissolved)	0.66	mg/l	0.01	284544.49	210695.4	2	NO	NO	0.33	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284544.49	210695.4	8.00E-05	YES	NO	1.38	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Chromium (Dissolved)	0.0038	mg/l	0.0005	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284544.49	210695.4	0.001	NO	NO	0.5	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284544.49	210695.4	0.02	NO	NO	0.02	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284544.49	210695.4	0.0137	NO	NO	0.18	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Acenaphthene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Phenanthrene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Fluorene	< 0.0001	mg/l	0.0001	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Naphthalene	< 0.0001	mg/l	0.0001	284544.49	210695.4	0.002	NO	NO	0.05	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Manganese (Dissolved)	0.22	mg/l	0.0005	284544.49	210695.4	0.123	NO	YES	1.79	POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	Total Of 16 PAH's	< 0.002	mg/l	0.002	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH103	234.33	5.54	36	Sulphate	250	mg/l	1	284603.15	210646.48	400	NO	NO	0.62	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Cyanide (Total)	< 0.05	mg/l	0.05	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Calcium (Dissolved)	340	mg/l	2	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Cyanide (Free)	< 0.05	mg/l	0.05	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Total Phenols	< 0.03	mg/l	0.03	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Total Hardness as CaCO3	1500	mg/l	15	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Dissolved Organic Carbon	< 2.0	mg/l	2	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Anthracene	< 0.0001	mg/l	0.0001	284603.15	210646.48	0.0001	NO	NO	1	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Pyrene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284603.15	210646.48	0.0034	YES	NO	5.88	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Fluoranthene	< 0.0001	mg/l	0.0001	284603.15	210646.48	6.30E-06	YES	NO	15.87	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Acenaphthylene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Chrysene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284603.15	210646.48	1.70E-07	YES	NO	588.24	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284603.15	210646.48	0.0012	NO	NO	0.42	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284603.15	210646.48	7.00E-05	NO	NO	0.71	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Nickel (Dissolved)	0.0024	mg/l	0.0005	284603.15	210646.48	0.004	NO	NO	0.6	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Arsenic (Dissolved)	0.00039	mg/l	0.0002	284603.15	210646.48	0.05	NO	NO	0.01	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Boron (Dissolved)	0.041	mg/l	0.01	284603.15	210646.48	2	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284603.15	210646.48	8.00E-05	YES	NO	1.38	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284603.15	210646.48	0.001	NO	NO	0.5	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284603.15	210646.48	0.02	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Zinc (Dissolved)	0.0048	mg/l	0.0025	284603.15	210646.48	0.0137	NO	NO	0.35	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Acenaphthene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH103	234.33	5.54	36	Phenanthrene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Fluorene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Naphthalene	< 0.0001	mg/l	0.0001	284603.15	210646.48	0.002	NO	NO	0.05	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Manganese (Dissolved)	0.92	mg/l	0.0005	284603.15	210646.48	0.123	NO	YES	7.48	POINT (284603.15 210646.48)
S1-BH103	234.33	5.54	36	Total Of 16 PAH's	< 0.002	mg/l	0.002	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Sulphate	240	mg/l	1	284603.15	210646.48	400	NO	NO	0.6	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Cyanide (Total)	< 0.05	mg/l	0.05	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Calcium (Dissolved)	78	mg/l	2	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Cyanide (Free)	< 0.05	mg/l	0.05	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Total Phenols	< 0.03	mg/l	0.03	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Total Hardness as CaCO3	350	mg/l	15	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Dissolved Organic Carbon	< 2.0	mg/l	2	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Anthracene	< 0.0001	mg/l	0.0001	284603.15	210646.48	0.0001	NO	NO	1	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Pyrene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284603.15	210646.48	0.0034	YES	NO	5.88	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Fluoranthene	< 0.0001	mg/l	0.0001	284603.15	210646.48	6.30E-06	YES	NO	15.87	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Acenaphthylene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Chrysene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284603.15	210646.48	1.70E-07	YES	NO	588.24	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284603.15	210646.48	0.0012	NO	NO	0.42	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284603.15	210646.48	7.00E-05	NO	NO	0.71	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Nickel (Dissolved)	0.0023	mg/l	0.0005	284603.15	210646.48	0.004	NO	NO	0.57	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284603.15	210646.48	0.05	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Boron (Dissolved)	0.047	mg/l	0.01	284603.15	210646.48	2	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284603.15	210646.48	8.00E-05	YES	NO	1.38	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Chromium (Dissolved)	0.0015	mg/l	0.0005	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284603.15	210646.48	0.001	NO	NO	0.5	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284603.15	210646.48	0.02	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284603.15	210646.48	0.0137	NO	NO	0.18	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Selenium (Dissolved)	0.0029	mg/l	0.0005	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Acenaphthene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Phenanthrene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Fluorene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Naphthalene	< 0.0001	mg/l	0.0001	284603.15	210646.48	0.002	NO	NO	0.05	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Manganese (Dissolved)	0.83	mg/l	0.0005	284603.15	210646.48	0.123	NO	YES	6.75	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	Total Of 16 PAH's	< 0.002	mg/l	0.002	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Sulphate	200	mg/l	1	284603.15	210646.48	400	NO	NO	0.5	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Cyanide (Total)	< 0.05	mg/l	0.05	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Calcium (Dissolved)	78	mg/l	2	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Cyanide (Free)	< 0.05	mg/l	0.05	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Total Phenols	< 0.03	mg/l	0.03	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH103	234.33	5.52	38	Total Hardness as CaCO3	350	mg/l	15	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Dissolved Organic Carbon	< 2.0	mg/l	2	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Anthracene	< 0.0001	mg/l	0.0001	284603.15	210646.48	0.0001	NO	NO	1	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Pyrene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284603.15	210646.48	0.0034	YES	NO	5.88	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Fluoranthene	< 0.0001	mg/l	0.0001	284603.15	210646.48	6.30E-06	YES	NO	15.87	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Acenaphthylene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Chrysene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284603.15	210646.48	1.70E-07	YES	NO	588.24	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284603.15	210646.48	0.0012	NO	NO	0.42	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284603.15	210646.48	7.00E-05	NO	NO	0.71	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Nickel (Dissolved)	0.0025	mg/l	0.0005	284603.15	210646.48	0.004	NO	NO	0.62	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284603.15	210646.48	0.05	NO	NO	0	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Boron (Dissolved)	0.046	mg/l	0.01	284603.15	210646.48	2	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284603.15	210646.48	8.00E-05	YES	NO	1.38	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Chromium (Dissolved)	0.0012	mg/l	0.0005	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284603.15	210646.48	0.001	NO	NO	0.5	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284603.15	210646.48	0.02	NO	NO	0.02	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284603.15	210646.48	0.0137	NO	NO	0.18	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Acenaphthene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Phenanthrene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Fluorene	< 0.0001	mg/l	0.0001	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Naphthalene	< 0.0001	mg/l	0.0001	284603.15	210646.48	0.002	NO	NO	0.05	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Manganese (Dissolved)	0.39	mg/l	0.0005	284603.15	210646.48	0.123	NO	YES	3.17	POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	Total Of 16 PAH's	< 0.002	mg/l	0.002	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH105	236.49	15.36	37	Sulphate	150	mg/l	1	284718.99	210649.88	400	NO	NO	0.38	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Cyanide (Total)	< 0.05	mg/l	0.05	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Calcium (Dissolved)	88	mg/l	2	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Cyanide (Free)	< 0.05	mg/l	0.05	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Total Phenols	< 0.03	mg/l	0.03	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Total Hardness as CaCO3	370	mg/l	15	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Dissolved Organic Carbon	< 2.0	mg/l	2	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Anthracene	< 0.0001	mg/l	0.0001	284718.99	210649.88	0.0001	NO	NO	1	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Pyrene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284718.99	210649.88	0.0034	YES	NO	5.88	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Fluoranthene	< 0.0001	mg/l	0.0001	284718.99	210649.88	6.30E-06	YES	NO	15.87	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH105	236.49	15.36	37	Acenaphthylene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Chrysene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284718.99	210649.88	1.70E-07	YES	NO	588.24	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284718.99	210649.88	0.0012	NO	NO	0.42	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284718.99	210649.88	7.00E-05	NO	NO	0.71	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Nickel (Dissolved)	0.0061	mg/l	0.0005	284718.99	210649.88	0.004	NO	YES	1.52	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Arsenic (Dissolved)	0.00033	mg/l	0.0002	284718.99	210649.88	0.05	NO	NO	0.01	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Boron (Dissolved)	0.038	mg/l	0.01	284718.99	210649.88	2	NO	NO	0.02	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284718.99	210649.88	8.00E-05	YES	NO	1.38	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Chromium (Dissolved)	0.0017	mg/l	0.0005	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284718.99	210649.88	0.001	NO	NO	0.5	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284718.99	210649.88	0.02	NO	NO	0.02	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284718.99	210649.88	0.0137	NO	NO	0.18	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Selenium (Dissolved)	0.0024	mg/l	0.0005	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Acenaphthene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Phenanthrene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Fluorene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Naphthalene	< 0.0001	mg/l	0.0001	284718.99	210649.88	0.002	NO	NO	0.05	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Manganese (Dissolved)	2	mg/l	0.0005	284718.99	210649.88	0.123	NO	YES	16.26	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	37	Total Of 16 PAH's	< 0.002	mg/l	0.002	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Sulphate	100	mg/l	1	284718.99	210649.88	400	NO	NO	0.25	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Cyanide (Total)	< 0.05	mg/l	0.05	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Calcium (Dissolved)	82	mg/l	2	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Cyanide (Free)	< 0.05	mg/l	0.05	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Total Phenols	< 0.03	mg/l	0.03	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Total Hardness as CaCO3	330	mg/l	15	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Dissolved Organic Carbon	< 2.0	mg/l	2	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Anthracene	< 0.0001	mg/l	0.0001	284718.99	210649.88	0.0001	NO	NO	1	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Pyrene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284718.99	210649.88	0.0034	YES	NO	5.88	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Fluoranthene	< 0.0001	mg/l	0.0001	284718.99	210649.88	6.30E-06	YES	NO	15.87	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Acenaphthylene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Chrysene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284718.99	210649.88	1.70E-07	YES	NO	588.24	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284718.99	210649.88	0.0012	NO	NO	0.42	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284718.99	210649.88	7.00E-05	NO	NO	0.71	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Nickel (Dissolved)	0.002	mg/l	0.0005	284718.99	210649.88	0.004	NO	NO	0.5	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284718.99	210649.88	0.05	NO	NO	0	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Boron (Dissolved)	0.032	mg/l	0.01	284718.99	210649.88	2	NO	NO	0.02	POINT (284718.99 210649.88)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH105	236.49	15.36	38	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284718.99	210649.88	8.00E-05	YES	NO	1.38	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Chromium (Dissolved)	0.0014	mg/l	0.0005	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284718.99	210649.88	0.001	NO	NO	0.5	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284718.99	210649.88	0.02	NO	NO	0.02	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284718.99	210649.88	0.0137	NO	NO	0.18	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Acenaphthene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Phenanthrene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Fluorene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Naphthalene	< 0.0001	mg/l	0.0001	284718.99	210649.88	0.002	NO	NO	0.05	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Manganese (Dissolved)	0.9	mg/l	0.0005	284718.99	210649.88	0.123	NO	YES	7.32	POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	Total Of 16 PAH's	< 0.002	mg/l	0.002	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Sulphate	130	mg/l	1	284718.99	210649.88	400	NO	NO	0.32	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Cyanide (Total)	< 0.05	mg/l	0.05	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Calcium (Dissolved)	77	mg/l	2	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Cyanide (Free)	< 0.05	mg/l	0.05	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Total Phenols	< 0.03	mg/l	0.03	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Total Hardness as CaCO3	330	mg/l	15	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Dissolved Organic Carbon	< 2.0	mg/l	2	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Anthracene	< 0.0001	mg/l	0.0001	284718.99	210649.88	0.0001	NO	NO	1	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Pyrene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284718.99	210649.88	0.0034	YES	NO	5.88	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Fluoranthene	< 0.0001	mg/l	0.0001	284718.99	210649.88	6.30E-06	YES	NO	15.87	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Acenaphthylene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Chrysene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284718.99	210649.88	1.70E-07	YES	NO	588.24	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284718.99	210649.88	0.0012	NO	NO	0.42	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284718.99	210649.88	7.00E-05	NO	NO	0.71	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Nickel (Dissolved)	0.0038	mg/l	0.0005	284718.99	210649.88	0.004	NO	NO	0.95	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Arsenic (Dissolved)	0.0027	mg/l	0.0002	284718.99	210649.88	0.05	NO	NO	0.05	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Boron (Dissolved)	0.036	mg/l	0.01	284718.99	210649.88	2	NO	NO	0.02	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284718.99	210649.88	8.00E-05	YES	NO	1.38	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284718.99	210649.88	0.001	NO	NO	0.5	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284718.99	210649.88	0.02	NO	NO	0.02	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Zinc (Dissolved)	0.013	mg/l	0.0025	284718.99	210649.88	0.0137	NO	NO	0.95	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Selenium (Dissolved)	0.0016	mg/l	0.0005	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Acenaphthene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Phenanthrene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Fluorene	< 0.0001	mg/l	0.0001	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Naphthalene	< 0.0001	mg/l	0.0001	284718.99	210649.88	0.002	NO	NO	0.05	POINT (284718.99 210649.88)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH105	236.49	6.28	GW1	Manganese (Dissolved)	1.6	mg/l	0.0005	284718.99	210649.88	0.123	NO	YES	13.01	POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	Total Of 16 PAH's	< 0.002	mg/l	0.002	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH112	237.94	15	26	Sulphate	170	mg/l	1	284882.07	210599.97	400	NO	NO	0.42	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Cyanide (Total)	< 0.05	mg/l	0.05	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Calcium (Dissolved)	69	mg/l	2	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Cyanide (Free)	< 0.05	mg/l	0.05	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Total Phenols	< 0.03	mg/l	0.03	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Total Hardness as CaCO3	280	mg/l	15	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Dissolved Organic Carbon	< 2.0	mg/l	2	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Anthracene	< 0.0001	mg/l	0.0001	284882.07	210599.97	0.0001	NO	NO	1	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Pyrene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284882.07	210599.97	0.0034	YES	NO	5.88	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Fluoranthene	< 0.0001	mg/l	0.0001	284882.07	210599.97	6.30E-06	YES	NO	15.87	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Acenaphthylene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Chrysene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284882.07	210599.97	1.70E-07	YES	NO	588.24	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284882.07	210599.97	0.0012	NO	NO	0.42	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284882.07	210599.97	7.00E-05	NO	NO	0.71	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Nickel (Dissolved)	0.0026	mg/l	0.0005	284882.07	210599.97	0.004	NO	NO	0.65	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284882.07	210599.97	0.05	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Boron (Dissolved)	0.054	mg/l	0.01	284882.07	210599.97	2	NO	NO	0.03	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284882.07	210599.97	8.00E-05	YES	NO	1.38	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Chromium (Dissolved)	0.0012	mg/l	0.0005	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284882.07	210599.97	0.001	NO	NO	0.5	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284882.07	210599.97	0.02	NO	NO	0.02	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Zinc (Dissolved)	0.012	mg/l	0.0025	284882.07	210599.97	0.0137	NO	NO	0.88	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Selenium (Dissolved)	0.0031	mg/l	0.0005	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Acenaphthene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Phenanthrene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Fluorene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Naphthalene	< 0.0001	mg/l	0.0001	284882.07	210599.97	0.002	NO	NO	0.05	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Manganese (Dissolved)	1.6	mg/l	0.0005	284882.07	210599.97	0.123	NO	YES	13.01	POINT (284882.07 210599.97)
S1-BH112	237.94	15	26	Total Of 16 PAH's	< 0.002	mg/l	0.002	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Sulphate	180	mg/l	1	284882.07	210599.97	400	NO	NO	0.45	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Cyanide (Total)	< 0.05	mg/l	0.05	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Calcium (Dissolved)	73	mg/l	2	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Cyanide (Free)	< 0.05	mg/l	0.05	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Total Phenols	< 0.03	mg/l	0.03	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Total Hardness as CaCO3	290	mg/l	15	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Dissolved Organic Carbon	< 2.0	mg/l	2	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Anthracene	< 0.0001	mg/l	0.0001	284882.07	210599.97	0.0001	NO	NO	1	POINT (284882.07 210599.97)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH112	237.94	15.17	27	Pyrene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284882.07	210599.97	0.0034	YES	NO	5.88	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Fluoranthene	< 0.0001	mg/l	0.0001	284882.07	210599.97	6.30E-06	YES	NO	15.87	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Acenaphthylene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Chrysene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284882.07	210599.97	1.70E-07	YES	NO	588.24	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284882.07	210599.97	0.0012	NO	NO	0.42	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284882.07	210599.97	7.00E-05	NO	NO	0.71	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Nickel (Dissolved)	0.0015	mg/l	0.0005	284882.07	210599.97	0.004	NO	NO	0.38	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284882.07	210599.97	0.05	NO	NO	0	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Boron (Dissolved)	0.045	mg/l	0.01	284882.07	210599.97	2	NO	NO	0.02	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Cadmium (Dissolved)	0.00016	mg/l	0.00011	284882.07	210599.97	8.00E-05	YES	YES	2	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284882.07	210599.97	0.001	NO	NO	0.5	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284882.07	210599.97	0.02	NO	NO	0.02	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Zinc (Dissolved)	0.0027	mg/l	0.0025	284882.07	210599.97	0.0137	NO	NO	0.2	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Acenaphthene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Phenanthrene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Fluorene	< 0.0001	mg/l	0.0001	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Naphthalene	< 0.0001	mg/l	0.0001	284882.07	210599.97	0.002	NO	NO	0.05	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Manganese (Dissolved)	1.3	mg/l	0.0005	284882.07	210599.97	0.123	NO	YES	10.57	POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	Total Of 16 PAH's	< 0.002	mg/l	0.002	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH113	236.95	5.54	31	Sulphate	290	mg/l	1	284799.55	210645.61	400	NO	NO	0.72	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Cyanide (Total)	< 0.05	mg/l	0.05	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Calcium (Dissolved)	120	mg/l	2	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Cyanide (Free)	< 0.05	mg/l	0.05	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Total Phenols	< 0.03	mg/l	0.03	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Total Hardness as CaCO3	490	mg/l	15	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Dissolved Organic Carbon	< 2.0	mg/l	2	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Anthracene	< 0.0001	mg/l	0.0001	284799.55	210645.61	0.0001	NO	NO	1	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Pyrene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284799.55	210645.61	0.0034	YES	NO	5.88	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Fluoranthene	< 0.0001	mg/l	0.0001	284799.55	210645.61	6.30E-06	YES	NO	15.87	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Acenaphthylene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Chrysene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284799.55	210645.61	1.70E-07	YES	NO	588.24	POINT (284799.55 210645.61)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH113	236.95	5.54	31	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284799.55	210645.61	0.0012	NO	NO	0.42	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284799.55	210645.61	7.00E-05	NO	NO	0.71	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Nickel (Dissolved)	0.0094	mg/l	0.0005	284799.55	210645.61	0.004	NO	YES	2.35	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284799.55	210645.61	0.05	NO	NO	0	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Boron (Dissolved)	0.062	mg/l	0.01	284799.55	210645.61	2	NO	NO	0.03	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284799.55	210645.61	8.00E-05	YES	NO	1.38	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Chromium (Dissolved)	0.002	mg/l	0.0005	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284799.55	210645.61	0.001	NO	NO	0.5	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284799.55	210645.61	0.02	NO	NO	0.02	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Zinc (Dissolved)	0.0043	mg/l	0.0025	284799.55	210645.61	0.0137	NO	NO	0.31	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Selenium (Dissolved)	0.0017	mg/l	0.0005	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Acenaphthene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Phenanthrene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Fluorene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Naphthalene	< 0.0001	mg/l	0.0001	284799.55	210645.61	0.002	NO	NO	0.05	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Manganese (Dissolved)	1.5	mg/l	0.0005	284799.55	210645.61	0.123	NO	YES	12.2	POINT (284799.55 210645.61)
S1-BH113	236.95	5.54	31	Total Of 16 PAH's	< 0.002	mg/l	0.002	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Sulphate	180	mg/l	1	284799.55	210645.61	400	NO	NO	0.45	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Cyanide (Total)	< 0.05	mg/l	0.05	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Calcium (Dissolved)	75	mg/l	2	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Cyanide (Free)	< 0.05	mg/l	0.05	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Total Phenols	< 0.03	mg/l	0.03	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Total Hardness as CaCO3	320	mg/l	15	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Dissolved Organic Carbon	< 2.0	mg/l	2	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Anthracene	< 0.0001	mg/l	0.0001	284799.55	210645.61	0.0001	NO	NO	1	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Pyrene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284799.55	210645.61	0.0034	YES	NO	5.88	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Fluoranthene	< 0.0001	mg/l	0.0001	284799.55	210645.61	6.30E-06	YES	NO	15.87	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Acenaphthylene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Chrysene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284799.55	210645.61	1.70E-07	YES	NO	588.24	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284799.55	210645.61	0.0012	NO	NO	0.42	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284799.55	210645.61	7.00E-05	NO	NO	0.71	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Nickel (Dissolved)	0.0052	mg/l	0.0005	284799.55	210645.61	0.004	NO	YES	1.3	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Arsenic (Dissolved)	0.0011	mg/l	0.0002	284799.55	210645.61	0.05	NO	NO	0.02	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Boron (Dissolved)	0.062	mg/l	0.01	284799.55	210645.61	2	NO	NO	0.03	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284799.55	210645.61	8.00E-05	YES	NO	1.38	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284799.55	210645.61	0.001	NO	NO	0.5	POINT (284799.55 210645.61)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH113	236.95	3.86	GW1	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284799.55	210645.61	0.02	NO	NO	0.02	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Zinc (Dissolved)	0.0081	mg/l	0.0025	284799.55	210645.61	0.0137	NO	NO	0.59	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Selenium (Dissolved)	0.0018	mg/l	0.0005	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Acenaphthene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Phenanthrene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Fluorene	< 0.0001	mg/l	0.0001	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Naphthalene	< 0.0001	mg/l	0.0001	284799.55	210645.61	0.002	NO	NO	0.05	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Manganese (Dissolved)	0.84	mg/l	0.0005	284799.55	210645.61	0.123	NO	YES	6.83	POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	Total Of 16 PAH's	< 0.002	mg/l	0.002	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH121	230.88	3.3	19	Sulphate	17	mg/l	1	284475.72	210703	400	NO	NO	0.04	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Cyanide (Total)	0.06	mg/l	0.05	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Calcium (Dissolved)	190	mg/l	2	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Cyanide (Free)	< 0.05	mg/l	0.05	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Total Phenols	< 0.03	mg/l	0.03	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Total Hardness as CaCO3	830	mg/l	15	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Dissolved Organic Carbon	2	mg/l	2	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Anthracene	< 0.0001	mg/l	0.0001	284475.72	210703	0.0001	NO	NO	1	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Pyrene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284475.72	210703	0.0034	YES	NO	5.88	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Fluoranthene	< 0.0001	mg/l	0.0001	284475.72	210703	6.30E-06	YES	NO	15.87	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Acenaphthylene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Chrysene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284475.72	210703	1.70E-07	YES	NO	588.24	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284475.72	210703	0.0012	NO	NO	0.42	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284475.72	210703	7.00E-05	NO	NO	0.71	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Nickel (Dissolved)	0.0026	mg/l	0.0005	284475.72	210703	0.004	NO	NO	0.65	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Arsenic (Dissolved)	0.00057	mg/l	0.0002	284475.72	210703	0.05	NO	NO	0.01	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Boron (Dissolved)	0.036	mg/l	0.01	284475.72	210703	2	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284475.72	210703	8.00E-05	YES	NO	1.38	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284475.72	210703	0.001	NO	NO	0.5	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284475.72	210703	0.02	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284475.72	210703	0.0137	NO	NO	0.18	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Acenaphthene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Phenanthrene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Fluorene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Naphthalene	< 0.0001	mg/l	0.0001	284475.72	210703	0.002	NO	NO	0.05	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Manganese (Dissolved)	0.2	mg/l	0.0005	284475.72	210703	0.123	NO	YES	1.63	POINT (284475.72 210703)
S1-BH121	230.88	3.3	19	Total Of 16 PAH's	< 0.002	mg/l	0.002	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Sulphate	34	mg/l	1	284475.72	210703	400	NO	NO	0.08	POINT (284475.72 210703)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH121	230.88	3.32	20	Cyanide (Total)	< 0.05	mg/l	0.05	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Calcium (Dissolved)	62	mg/l	2	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Cyanide (Free)	< 0.05	mg/l	0.05	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Total Phenols	< 0.03	mg/l	0.03	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Total Hardness as CaCO3	250	mg/l	15	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Dissolved Organic Carbon	< 2.0	mg/l	2	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Anthracene	< 0.0001	mg/l	0.0001	284475.72	210703	0.0001	NO	NO	1	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Pyrene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284475.72	210703	0.0034	YES	NO	5.88	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Fluoranthene	< 0.0001	mg/l	0.0001	284475.72	210703	6.30E-06	YES	NO	15.87	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Acenaphthylene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Chrysene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284475.72	210703	1.70E-07	YES	NO	588.24	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284475.72	210703	0.0012	NO	NO	0.42	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284475.72	210703	7.00E-05	NO	NO	0.71	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Nickel (Dissolved)	0.0028	mg/l	0.0005	284475.72	210703	0.004	NO	NO	0.7	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284475.72	210703	0.05	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Boron (Dissolved)	0.03	mg/l	0.01	284475.72	210703	2	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284475.72	210703	8.00E-05	YES	NO	1.38	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Chromium (Dissolved)	0.0019	mg/l	0.0005	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284475.72	210703	0.001	NO	NO	0.5	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284475.72	210703	0.02	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Zinc (Dissolved)	0.0037	mg/l	0.0025	284475.72	210703	0.0137	NO	NO	0.27	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Selenium (Dissolved)	0.0018	mg/l	0.0005	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Acenaphthene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Phenanthrene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Fluorene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Naphthalene	< 0.0001	mg/l	0.0001	284475.72	210703	0.002	NO	NO	0.05	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Manganese (Dissolved)	0.72	mg/l	0.0005	284475.72	210703	0.123	NO	YES	5.85	POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	Total Of 16 PAH's	< 0.002	mg/l	0.002	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Sulphate	60	mg/l	1	284475.72	210703	400	NO	NO	0.15	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Cyanide (Total)	< 0.05	mg/l	0.05	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Calcium (Dissolved)	69	mg/l	2	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Cyanide (Free)	< 0.05	mg/l	0.05	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Total Phenols	< 0.03	mg/l	0.03	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Total Hardness as CaCO3	270	mg/l	15	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Dissolved Organic Carbon	< 2.0	mg/l	2	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Anthracene	< 0.0001	mg/l	0.0001	284475.72	210703	0.0001	NO	NO	1	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Pyrene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284475.72	210703	0.0034	YES	NO	5.88	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH121	230.88	3.28	21	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Fluoranthene	< 0.0001	mg/l	0.0001	284475.72	210703	6.30E-06	YES	NO	15.87	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Acenaphthylene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Chrysene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284475.72	210703	1.70E-07	YES	NO	588.24	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284475.72	210703	0.0012	NO	NO	0.42	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284475.72	210703	7.00E-05	NO	NO	0.71	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Nickel (Dissolved)	0.001	mg/l	0.0005	284475.72	210703	0.004	NO	NO	0.25	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284475.72	210703	0.05	NO	NO	0	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Boron (Dissolved)	0.5	mg/l	0.01	284475.72	210703	2	NO	NO	0.25	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284475.72	210703	8.00E-05	YES	NO	1.38	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Chromium (Dissolved)	0.0031	mg/l	0.0005	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284475.72	210703	0.001	NO	NO	0.5	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284475.72	210703	0.02	NO	NO	0.02	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Zinc (Dissolved)	0.0031	mg/l	0.0025	284475.72	210703	0.0137	NO	NO	0.23	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Acenaphthene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Phenanthrene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Fluorene	< 0.0001	mg/l	0.0001	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Naphthalene	< 0.0001	mg/l	0.0001	284475.72	210703	0.002	NO	NO	0.05	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Manganese (Dissolved)	0.75	mg/l	0.0005	284475.72	210703	0.123	NO	YES	6.1	POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	Total Of 16 PAH's	< 0.002	mg/l	0.002	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH122	230.82	1.76	22	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	Cyanide (Total)	0.06	mg/l	0.05	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	Calcium (Dissolved)	320	mg/l	2	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH122	230.82	1.76	22	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	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	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	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	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	Chromium (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	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284632.9	210701.3	0.0137	NO	NO	0.18	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	22	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	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	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	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	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	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	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	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	Cyanide (Total)	< 0.05	mg/l	0.05	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	Calcium (Dissolved)	98	mg/l	2	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	Chromium (Dissolved)	0.0019	mg/l	0.0005	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	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	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	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284632.9	210701.3	0.0137	NO	NO	0.18	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	23	Selenium (Dissolved)	0.0023	mg/l	0.0005	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
S1-BH122	230.82	1.76	23	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	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	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	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	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	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	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	Cyanide (Total)	< 0.05	mg/l	0.05	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	Calcium (Dissolved)	110	mg/l	2	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	Chromium (Dissolved)	0.0028	mg/l	0.0005	284632.9	210701.3		NO	NO		POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	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	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	Zinc (Dissolved)	0.0071	mg/l	0.0025	284632.9	210701.3	0.0137	NO	NO	0.52	POINT (284632.9 210701.3)
S1-BH122	230.82	1.76	24	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	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	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	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	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	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	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	Sulphate	200	mg/l	1	284914.08	210570.58	400	NO	NO	0.5	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Cyanide (Total)	< 0.05	mg/l	0.05	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Calcium (Dissolved)	72	mg/l	2	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Cyanide (Free)	< 0.05	mg/l	0.05	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SOP003.16	238.78	11	1	Total Phenols	< 0.03	mg/l	0.03	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Total Hardness as CaCO3	290	mg/l	15	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Dissolved Organic Carbon	< 2.0	mg/l	2	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Anthracene	< 0.0001	mg/l	0.0001	284914.08	210570.58	0.0001	NO	NO	1	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Pyrene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284914.08	210570.58	0.0034	YES	NO	5.88	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Fluoranthene	< 0.0001	mg/l	0.0001	284914.08	210570.58	6.30E-06	YES	NO	15.87	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Acenaphthylene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Chrysene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284914.08	210570.58	1.70E-07	YES	NO	588.24	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284914.08	210570.58	0.0012	NO	NO	0.42	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284914.08	210570.58	7.00E-05	NO	NO	0.71	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Nickel (Dissolved)	0.0049	mg/l	0.0005	284914.08	210570.58	0.004	NO	YES	1.23	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284914.08	210570.58	0.05	NO	NO	0	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Boron (Dissolved)	0.52	mg/l	0.01	284914.08	210570.58	2	NO	NO	0.26	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284914.08	210570.58	8.00E-05	YES	NO	1.38	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284914.08	210570.58	0.001	NO	NO	0.5	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284914.08	210570.58	0.02	NO	NO	0.02	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Zinc (Dissolved)	0.017	mg/l	0.0025	284914.08	210570.58	0.0137	NO	YES	1.24	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Selenium (Dissolved)	0.00082	mg/l	0.0005	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Acenaphthene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Phenanthrene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Fluorene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Naphthalene	0.00015	mg/l	0.0001	284914.08	210570.58	0.002	NO	NO	0.08	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Manganese (Dissolved)	1.4	mg/l	0.0005	284914.08	210570.58	0.123	NO	YES	11.38	POINT (284914.08 210570.58)
SOP003.16	238.78	11	1	Total Of 16 PAH's	< 0.002	mg/l	0.002	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Sulphate	160	mg/l	1	284914.08	210570.58	400	NO	NO	0.4	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Cyanide (Total)	< 0.05	mg/l	0.05	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Calcium (Dissolved)	290	mg/l	2	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Cyanide (Free)	< 0.05	mg/l	0.05	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Total Phenols	< 0.03	mg/l	0.03	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Total Hardness as CaCO3	1100	mg/l	15	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Dissolved Organic Carbon	< 2.0	mg/l	2	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Anthracene	< 0.0001	mg/l	0.0001	284914.08	210570.58	0.0001	NO	NO	1	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Pyrene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284914.08	210570.58	0.0034	YES	NO	5.88	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Fluoranthene	< 0.0001	mg/l	0.0001	284914.08	210570.58	6.30E-06	YES	NO	15.87	POINT (284914.08 210570.58)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SOP003.16	238.78	13.6	2	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Acenaphthylene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Chrysene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284914.08	210570.58	1.70E-07	YES	NO	588.24	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284914.08	210570.58	0.0012	NO	NO	0.42	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284914.08	210570.58	7.00E-05	NO	NO	0.71	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Nickel (Dissolved)	0.0021	mg/l	0.0005	284914.08	210570.58	0.004	NO	NO	0.52	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Arsenic (Dissolved)	0.00051	mg/l	0.0002	284914.08	210570.58	0.05	NO	NO	0.01	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Boron (Dissolved)	0.053	mg/l	0.01	284914.08	210570.58	2	NO	NO	0.03	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284914.08	210570.58	8.00E-05	YES	NO	1.38	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284914.08	210570.58	0.001	NO	NO	0.5	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284914.08	210570.58	0.02	NO	NO	0.02	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Zinc (Dissolved)	0.011	mg/l	0.0025	284914.08	210570.58	0.0137	NO	NO	0.8	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Acenaphthene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Phenanthrene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Fluorene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Naphthalene	< 0.0001	mg/l	0.0001	284914.08	210570.58	0.002	NO	NO	0.05	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Manganese (Dissolved)	0.78	mg/l	0.0005	284914.08	210570.58	0.123	NO	YES	6.34	POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	Total Of 16 PAH's	< 0.002	mg/l	0.002	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Sulphate	170	mg/l	1	284914.08	210570.58	400	NO	NO	0.42	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Cyanide (Total)	< 0.05	mg/l	0.05	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Calcium (Dissolved)	71	mg/l	2	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Cyanide (Free)	< 0.05	mg/l	0.05	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Total Phenols	< 0.03	mg/l	0.03	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Total Hardness as CaCO3	280	mg/l	15	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Dissolved Organic Carbon	< 2.0	mg/l	2	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Anthracene	< 0.0001	mg/l	0.0001	284914.08	210570.58	0.0001	NO	NO	1	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Pyrene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284914.08	210570.58	0.0034	YES	NO	5.88	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Fluoranthene	< 0.0001	mg/l	0.0001	284914.08	210570.58	6.30E-06	YES	NO	15.87	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Acenaphthylene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Chrysene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284914.08	210570.58	1.70E-07	YES	NO	588.24	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284914.08	210570.58	0.0012	NO	NO	0.42	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284914.08	210570.58	7.00E-05	NO	NO	0.71	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Nickel (Dissolved)	0.0015	mg/l	0.0005	284914.08	210570.58	0.004	NO	NO	0.38	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Arsenic (Dissolved)	0.0011	mg/l	0.0002	284914.08	210570.58	0.05	NO	NO	0.02	POINT (284914.08 210570.58)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SOP003.16	238.78	13.56	3	Boron (Dissolved)	0.055	mg/l	0.01	284914.08	210570.58	2	NO	NO	0.03	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284914.08	210570.58	8.00E-05	YES	NO	1.38	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Chromium (Dissolved)	0.0012	mg/l	0.0005	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284914.08	210570.58	0.001	NO	NO	0.5	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284914.08	210570.58	0.02	NO	NO	0.02	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Zinc (Dissolved)	0.0088	mg/l	0.0025	284914.08	210570.58	0.0137	NO	NO	0.64	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Selenium (Dissolved)	0.00073	mg/l	0.0005	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Acenaphthene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Phenanthrene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Fluorene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Naphthalene	< 0.0001	mg/l	0.0001	284914.08	210570.58	0.002	NO	NO	0.05	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Manganese (Dissolved)	0.87	mg/l	0.0005	284914.08	210570.58	0.123	NO	YES	7.07	POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	Total Of 16 PAH's	< 0.002	mg/l	0.002	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Sulphate	150	mg/l	1	284914.08	210570.58	400	NO	NO	0.38	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Cyanide (Total)	< 0.05	mg/l	0.05	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Calcium (Dissolved)	74	mg/l	2	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Cyanide (Free)	< 0.05	mg/l	0.05	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Total Phenols	< 0.03	mg/l	0.03	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Total Hardness as CaCO3	280	mg/l	15	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Dissolved Organic Carbon	< 2.0	mg/l	2	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Anthracene	< 0.0001	mg/l	0.0001	284914.08	210570.58	0.0001	NO	NO	1	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Pyrene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284914.08	210570.58	0.0034	YES	NO	5.88	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Fluoranthene	< 0.0001	mg/l	0.0001	284914.08	210570.58	6.30E-06	YES	NO	15.87	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Acenaphthylene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Chrysene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284914.08	210570.58	1.70E-07	YES	NO	588.24	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284914.08	210570.58	0.0012	NO	NO	0.42	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284914.08	210570.58	7.00E-05	NO	NO	0.71	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Nickel (Dissolved)	< 0.0005	mg/l	0.0005	284914.08	210570.58	0.004	NO	NO	0.12	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284914.08	210570.58	0.05	NO	NO	0	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Boron (Dissolved)	0.054	mg/l	0.01	284914.08	210570.58	2	NO	NO	0.03	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284914.08	210570.58	8.00E-05	YES	NO	1.38	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Chromium (Dissolved)	0.00079	mg/l	0.0005	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284914.08	210570.58	0.001	NO	NO	0.5	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284914.08	210570.58	0.02	NO	NO	0.02	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284914.08	210570.58	0.0137	NO	NO	0.18	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Acenaphthene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Phenanthrene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Fluorene	< 0.0001	mg/l	0.0001	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SOP003.16	238.78	13.66	4	Naphthalene	< 0.0001	mg/l	0.0001	284914.08	210570.58	0.002	NO	NO	0.05	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Manganese (Dissolved)	0.74	mg/l	0.0005	284914.08	210570.58	0.123	NO	YES	6.02	POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	Total Of 16 PAH's	< 0.002	mg/l	0.002	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
BH29	230.74	0.83	1	PAH Sum of 4 - calculated		mg/l	4.00E-05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	PAH Sum of 4 - calculated		mg/l	4.00E-05	284719.48	210705.39		NO	NO		POINT (284719.48 210705.39)
BH30	239.1	3.2	1	PAH Sum of 4 - calculated		mg/l	4.00E-05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	PAH Sum of 4 - calculated		mg/l	4.00E-05	284925.69	210549.41		NO	NO		POINT (284925.69 210549.41)
BH31	238.61	4.5	1	PAH Sum of 4 - calculated		mg/l	4.00E-05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	PAH Sum of 4 - calculated		mg/l	4.00E-05	284880.77	210454.81		NO	NO		POINT (284880.77 210454.81)
BH32	244.73	4.76	1	PAH Sum of 4 - calculated		mg/l	4.00E-05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	PAH Sum of 4 - calculated		mg/l	4.00E-05	284967.95	210230.01		NO	NO		POINT (284967.95 210230.01)
BH33	230.51	0.41	1	PAH Sum of 4 - calculated		mg/l	4.00E-05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	PAH Sum of 4 - calculated		mg/l	4.00E-05	284397.04	210700.88		NO	NO		POINT (284397.04 210700.88)
BH34	232.64	5.09	1	PAH Sum of 4 - calculated		mg/l	4.00E-05	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	PAH Sum of 4 - calculated		mg/l	4.00E-05	284419.61	210543.6		NO	NO		POINT (284419.61 210543.6)
S1-BH101	241.16	13.51	45	PAH Sum of 4 - calculated		mg/l	0.0004	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	PAH Sum of 4 - calculated		mg/l	0.0004	284925.38	210692.01		NO	NO		POINT (284925.38 210692.01)
S1-BH102	230.73	8.72	28	PAH Sum of 4 - calculated		mg/l	0.0004	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	PAH Sum of 4 - calculated		mg/l	0.0004	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	PAH Sum of 4 - calculated		mg/l	0.0004	284544.49	210695.4		NO	NO		POINT (284544.49 210695.4)
S1-BH103	234.33	5.54	36	PAH Sum of 4 - calculated		mg/l	0.0004	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	PAH Sum of 4 - calculated		mg/l	0.0004	284603.15	210646.48		NO	NO		POINT (284603.15 210646.48)
S1-BH105	236.49	15.36	37	PAH Sum of 4 - calculated		mg/l	0.0004	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	PAH Sum of 4 - calculated		mg/l	0.0004	284718.99	210649.88		NO	NO		POINT (284718.99 210649.88)
S1-BH112	237.94	15	26	PAH Sum of 4 - calculated		mg/l	0.0004	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	PAH Sum of 4 - calculated		mg/l	0.0004	284882.07	210599.97		NO	NO		POINT (284882.07 210599.97)
S1-BH113	236.95	5.54	31	PAH Sum of 4 - calculated		mg/l	0.0004	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	PAH Sum of 4 - calculated		mg/l	0.0004	284799.55	210645.61		NO	NO		POINT (284799.55 210645.61)
S1-BH121	230.88	3.3	19	PAH Sum of 4 - calculated		mg/l	0.0004	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	PAH Sum of 4 - calculated		mg/l	0.0004	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	PAH Sum of 4 - calculated		mg/l	0.0004	284475.72	210703		NO	NO		POINT (284475.72 210703)
S1-BH122	230.82	1.76	22	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	PAH Sum of 4 - calculated		mg/l	0.0004	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	PAH Sum of 4 - calculated		mg/l	0.0004	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	PAH Sum of 4 - calculated		mg/l	0.0004	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	PAH Sum of 4 - calculated		mg/l	0.0004	284914.08	210570.58		NO	NO		POINT (284914.08 210570.58)
BH29	230.74	0.83	1	Sum Xylenes - calculated		mg/l	0.002	284719.48	210705.39	0.03	NO	NO	0.07	POINT (284719.48 210705.39)
BH29	230.74	0.76	2	Sum Xylenes - calculated		mg/l	0.002	284719.48	210705.39	0.03	NO	NO	0.07	POINT (284719.48 210705.39)
BH30	239.1	3.2	1	Sum Xylenes - calculated		mg/l	0.002	284925.69	210549.41	0.03	NO	NO	0.07	POINT (284925.69 210549.41)
BH30	239.1	3.03	2	Sum Xylenes - calculated		mg/l	0.002	284925.69	210549.41	0.03	NO	NO	0.07	POINT (284925.69 210549.41)
BH31	238.61	4.5	1	Sum Xylenes - calculated		mg/l	0.002	284880.77	210454.81	0.03	NO	NO	0.07	POINT (284880.77 210454.81)
BH31	238.61	4.62	2	Sum Xylenes - calculated		mg/l	0.002	284880.77	210454.81	0.03	NO	NO	0.07	POINT (284880.77 210454.81)
BH32	244.73	4.76	1	Sum Xylenes - calculated		mg/l	0.002	284967.95	210230.01	0.03	NO	NO	0.07	POINT (284967.95 210230.01)
BH32	244.73	4.28	2	Sum Xylenes - calculated		mg/l	0.002	284967.95	210230.01	0.03	NO	NO	0.07	POINT (284967.95 210230.01)
BH33	230.51	0.41	1	Sum Xylenes - calculated		mg/l	0.002	284397.04	210700.88	0.03	NO	NO	0.07	POINT (284397.04 210700.88)
BH33	230.51	0.12	2	Sum Xylenes - calculated		mg/l	0.002	284397.04	210700.88	0.03	NO	NO	0.07	POINT (284397.04 210700.88)
BH34	232.64	5.09	1	Sum Xylenes - calculated		mg/l	0.002	284419.61	210543.6	0.03	NO	NO	0.07	POINT (284419.61 210543.6)

Appendix I.3

Table 2 Groundwater Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
BH34	232.64	4.76	2	Sum Xylenes - calculated		mg/l	0.002	284419.61	210543.6	0.03	NO	NO	0.07	POINT (284419.61 210543.6)
BH29	230.74	0.83	1	pH	8	-	0	284719.48	210705.39	6.0-9.0		NO		POINT (284719.48 210705.39)
BH29	230.74	0.76	2	pH	7.7	-	0	284719.48	210705.39	6.0-9.0		NO		POINT (284719.48 210705.39)
BH30	239.1	3.2	1	pH	8.2	-	0	284925.69	210549.41	6.0-9.0		NO		POINT (284925.69 210549.41)
BH30	239.1	3.03	2	pH	7.2	-	0	284925.69	210549.41	6.0-9.0		NO		POINT (284925.69 210549.41)
BH31	238.61	4.5	1	pH	7.9	-	0	284880.77	210454.81	6.0-9.0		NO		POINT (284880.77 210454.81)
BH31	238.61	4.62	2	pH	7.8	-	0	284880.77	210454.81	6.0-9.0		NO		POINT (284880.77 210454.81)
BH32	244.73	4.76	1	pH	8.2	-	0	284967.95	210230.01	6.0-9.0		NO		POINT (284967.95 210230.01)
BH32	244.73	4.28	2	pH	7.6	-	0	284967.95	210230.01	6.0-9.0		NO		POINT (284967.95 210230.01)
BH33	230.51	0.41	1	pH	8.3	-	0	284397.04	210700.88	6.0-9.0		NO		POINT (284397.04 210700.88)
BH33	230.51	0.12	2	pH	7.7	-	0	284397.04	210700.88	6.0-9.0		NO		POINT (284397.04 210700.88)
BH34	232.64	5.09	1	pH	8.4	-	0	284419.61	210543.6	6.0-9.0		NO		POINT (284419.61 210543.6)
BH34	232.64	4.76	2	pH	7.8	-	0	284419.61	210543.6	6.0-9.0		NO		POINT (284419.61 210543.6)
S1-BH101	241.16	13.51	45	pH	8.1	-	0	284925.38	210692.01	6.0-9.0		NO		POINT (284925.38 210692.01)
S1-BH101	241.16	13.47	46	pH	7	-	0	284925.38	210692.01	6.0-9.0		NO		POINT (284925.38 210692.01)
S1-BH102	230.73	8.72	28	pH	7.4	-	0	284544.49	210695.4	6.0-9.0		NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.85	29	pH	7.6	-	0	284544.49	210695.4	6.0-9.0		NO		POINT (284544.49 210695.4)
S1-BH102	230.73	8.75	30	pH	4.2	-	0	284544.49	210695.4	6.0-9.0		YES		POINT (284544.49 210695.4)
S1-BH103	234.33	5.54	36	pH	8	-	0	284603.15	210646.48	6.0-9.0		NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	37	pH	8.1	-	0	284603.15	210646.48	6.0-9.0		NO		POINT (284603.15 210646.48)
S1-BH103	234.33	5.52	38	pH	7	-	0	284603.15	210646.48	6.0-9.0		NO		POINT (284603.15 210646.48)
S1-BH105	236.49	15.36	37	pH	7.5	-	0	284718.99	210649.88	6.0-9.0		NO		POINT (284718.99 210649.88)
S1-BH105	236.49	15.36	38	pH	4.8	-	0	284718.99	210649.88	6.0-9.0		YES		POINT (284718.99 210649.88)
S1-BH105	236.49	6.28	GW1	pH	6.7	-	0	284718.99	210649.88	6.0-9.0		NO		POINT (284718.99 210649.88)
S1-BH112	237.94	15	26	pH	7.9	-	0	284882.07	210599.97	6.0-9.0		NO		POINT (284882.07 210599.97)
S1-BH112	237.94	15.17	27	pH	5.5	-	0	284882.07	210599.97	6.0-9.0		YES		POINT (284882.07 210599.97)
S1-BH113	236.95	5.54	31	pH	7.4	-	0	284799.55	210645.61	6.0-9.0		NO		POINT (284799.55 210645.61)
S1-BH113	236.95	3.86	GW1	pH	7.2	-	0	284799.55	210645.61	6.0-9.0		NO		POINT (284799.55 210645.61)
S1-BH121	230.88	3.3	19	pH	7.6	-	0	284475.72	210703	6.0-9.0		NO		POINT (284475.72 210703)
S1-BH121	230.88	3.32	20	pH	7.6	-	0	284475.72	210703	6.0-9.0		NO		POINT (284475.72 210703)
S1-BH121	230.88	3.28	21	pH	4.1	-	0	284475.72	210703	6.0-9.0		YES		POINT (284475.72 210703)
S1-BH122	230.82	1.76	22	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	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	pH	4.1	-	0	284632.9	210701.3	6.0-9.0		YES		POINT (284632.9 210701.3)
SOP003.16	238.78	11	1	pH	7.2	-	0	284914.08	210570.58	6.0-9.0		NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.6	2	pH	7.7	-	0	284914.08	210570.58	6.0-9.0		NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.56	3	pH	7.3	-	0	284914.08	210570.58	6.0-9.0		NO		POINT (284914.08 210570.58)
SOP003.16	238.78	13.66	4	pH	5.9	-	0	284914.08	210570.58	6.0-9.0		YES		POINT (284914.08 210570.58)

Appendix I.3

Table 3 Surface Water Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SW1	218.15	0	1	Sulphate	81	mg/l	1	283461.76	210222.53	400	NO	NO	0.2	POINT (283461.76 210222.53)
SW1	218.15	0	1	Cyanide (Total)	< 0.05	mg/l	0.05	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	Calcium (Dissolved)	45	mg/l	2	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	Cyanide (Free)	< 0.05	mg/l	0.05	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	Total Phenols	< 0.03	mg/l	0.03	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	Total Hardness as CaCO3	230	mg/l	15	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	Dissolved Organic Carbon	< 2.0	mg/l	2	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	Anthracene	< 0.0001	mg/l	0.0001	283461.76	210222.53	0.0001	NO	NO	1	POINT (283461.76 210222.53)
SW1	218.15	0	1	Pyrene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	Chromium (Hexavalent)	< 0.02	mg/l	0.02	283461.76	210222.53	0.0034	YES	NO	5.88	POINT (283461.76 210222.53)
SW1	218.15	0	1	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	Fluoranthene	< 0.0001	mg/l	0.0001	283461.76	210222.53	6.30E-06	YES	NO	15.87	POINT (283461.76 210222.53)
SW1	218.15	0	1	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	Acenaphthylene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	Chrysene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	283461.76	210222.53	1.70E-07	YES	NO	588.24	POINT (283461.76 210222.53)
SW1	218.15	0	1	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	Lead (Dissolved)	< 0.0005	mg/l	0.0005	283461.76	210222.53	0.0012	NO	NO	0.42	POINT (283461.76 210222.53)
SW1	218.15	0	1	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	283461.76	210222.53	7.00E-05	NO	NO	0.71	POINT (283461.76 210222.53)
SW1	218.15	0	1	Nickel (Dissolved)	0.0032	mg/l	0.0005	283461.76	210222.53	0.004	NO	NO	0.8	POINT (283461.76 210222.53)
SW1	218.15	0	1	Arsenic (Dissolved)	0.0006	mg/l	0.0002	283461.76	210222.53	0.05	NO	NO	0.01	POINT (283461.76 210222.53)
SW1	218.15	0	1	Boron (Dissolved)	0.04	mg/l	0.01	283461.76	210222.53	2	NO	NO	0.02	POINT (283461.76 210222.53)
SW1	218.15	0	1	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	283461.76	210222.53	8.00E-05	YES	NO	1.38	POINT (283461.76 210222.53)
SW1	218.15	0	1	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	Copper (Dissolved)	0.0006	mg/l	0.0005	283461.76	210222.53	0.001	NO	NO	0.6	POINT (283461.76 210222.53)
SW1	218.15	0	1	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	283461.76	210222.53	0.02	NO	NO	0.02	POINT (283461.76 210222.53)
SW1	218.15	0	1	Zinc (Dissolved)	0.0034	mg/l	0.0025	283461.76	210222.53	0.0137	NO	NO	0.25	POINT (283461.76 210222.53)
SW1	218.15	0	1	Selenium (Dissolved)	0.0016	mg/l	0.0005	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	Acenaphthene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	Phenanthrene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	Fluorene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	1	Naphthalene	< 0.0001	mg/l	0.0001	283461.76	210222.53	0.002	NO	NO	0.05	POINT (283461.76 210222.53)
SW1	218.15	0	1	Manganese (Dissolved)	0.05	mg/l	0.0005	283461.76	210222.53	0.123	NO	NO	0.41	POINT (283461.76 210222.53)
SW1	218.15	0	1	Total Of 16 PAH's	< 0.002	mg/l	0.002	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	Sulphate	110	mg/l	1	283461.76	210222.53	400	NO	NO	0.28	POINT (283461.76 210222.53)
SW1	218.15	0	2	Cyanide (Total)	< 0.05	mg/l	0.05	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	Calcium (Dissolved)	41	mg/l	2	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	Cyanide (Free)	< 0.05	mg/l	0.05	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	Total Phenols	< 0.03	mg/l	0.03	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	Total Hardness as CaCO3	210	mg/l	15	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	Dissolved Organic Carbon	2.1	mg/l	2	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	Anthracene	< 0.0001	mg/l	0.0001	283461.76	210222.53	0.0001	NO	NO	1	POINT (283461.76 210222.53)
SW1	218.15	0	2	Pyrene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	Chromium (Hexavalent)	< 0.02	mg/l	0.02	283461.76	210222.53	0.0034	YES	NO	5.88	POINT (283461.76 210222.53)

Appendix I.3

Table 3 Surface Water Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SW1	218.15	0	2	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	Fluoranthene	< 0.0001	mg/l	0.0001	283461.76	210222.53	6.30E-06	YES	NO	15.87	POINT (283461.76 210222.53)
SW1	218.15	0	2	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	Acenaphthylene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	Chrysene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	283461.76	210222.53	1.70E-07	YES	NO	588.24	POINT (283461.76 210222.53)
SW1	218.15	0	2	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	Lead (Dissolved)	< 0.0005	mg/l	0.0005	283461.76	210222.53	0.0012	NO	NO	0.42	POINT (283461.76 210222.53)
SW1	218.15	0	2	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	283461.76	210222.53	7.00E-05	NO	NO	0.71	POINT (283461.76 210222.53)
SW1	218.15	0	2	Nickel (Dissolved)	0.0033	mg/l	0.0005	283461.76	210222.53	0.004	NO	NO	0.82	POINT (283461.76 210222.53)
SW1	218.15	0	2	Arsenic (Dissolved)	0.00072	mg/l	0.0002	283461.76	210222.53	0.05	NO	NO	0.01	POINT (283461.76 210222.53)
SW1	218.15	0	2	Boron (Dissolved)	0.051	mg/l	0.01	283461.76	210222.53	2	NO	NO	0.03	POINT (283461.76 210222.53)
SW1	218.15	0	2	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	283461.76	210222.53	8.00E-05	YES	NO	1.38	POINT (283461.76 210222.53)
SW1	218.15	0	2	Chromium (Dissolved)	0.0025	mg/l	0.0005	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	Copper (Dissolved)	0.00056	mg/l	0.0005	283461.76	210222.53	0.001	NO	NO	0.56	POINT (283461.76 210222.53)
SW1	218.15	0	2	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	283461.76	210222.53	0.02	NO	NO	0.02	POINT (283461.76 210222.53)
SW1	218.15	0	2	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	283461.76	210222.53	0.0137	NO	NO	0.18	POINT (283461.76 210222.53)
SW1	218.15	0	2	Selenium (Dissolved)	0.00097	mg/l	0.0005	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	Acenaphthene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	Phenanthrene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	Fluorene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	Naphthalene	< 0.0001	mg/l	0.0001	283461.76	210222.53	0.002	NO	NO	0.05	POINT (283461.76 210222.53)
SW1	218.15	0	2	Manganese (Dissolved)	0.0054	mg/l	0.0005	283461.76	210222.53	0.123	NO	NO	0.04	POINT (283461.76 210222.53)
SW1	218.15	0	2	Total Of 16 PAH's	< 0.002	mg/l	0.002	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	Sulphate	110	mg/l	1	283461.76	210222.53	400	NO	NO	0.28	POINT (283461.76 210222.53)
SW1	218.15	0	3	Cyanide (Total)	< 0.05	mg/l	0.05	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	Calcium (Dissolved)	49	mg/l	2	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	Cyanide (Free)	< 0.05	mg/l	0.05	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	Total Phenols	< 0.03	mg/l	0.03	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	Total Hardness as CaCO3	240	mg/l	15	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	Dissolved Organic Carbon	2.1	mg/l	2	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	Anthracene	< 0.0001	mg/l	0.0001	283461.76	210222.53	0.0001	NO	NO	1	POINT (283461.76 210222.53)
SW1	218.15	0	3	Pyrene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	Chromium (Hexavalent)	< 0.02	mg/l	0.02	283461.76	210222.53	0.0034	YES	NO	5.88	POINT (283461.76 210222.53)
SW1	218.15	0	3	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	Fluoranthene	< 0.0001	mg/l	0.0001	283461.76	210222.53	6.30E-06	YES	NO	15.87	POINT (283461.76 210222.53)
SW1	218.15	0	3	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	Acenaphthylene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	Chrysene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	283461.76	210222.53	1.70E-07	YES	NO	588.24	POINT (283461.76 210222.53)
SW1	218.15	0	3	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)

Appendix I.3

Table 3 Surface Water Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SW1	218.15	0	3	Lead (Dissolved)	< 0.0005	mg/l	0.0005	283461.76	210222.53	0.0012	NO	NO	0.42	POINT (283461.76 210222.53)
SW1	218.15	0	3	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	283461.76	210222.53	7.00E-05	NO	NO	0.71	POINT (283461.76 210222.53)
SW1	218.15	0	3	Nickel (Dissolved)	0.0043	mg/l	0.0005	283461.76	210222.53	0.004	NO	YES	1.08	POINT (283461.76 210222.53)
SW1	218.15	0	3	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	283461.76	210222.53	0.05	NO	NO	0	POINT (283461.76 210222.53)
SW1	218.15	0	3	Boron (Dissolved)	0.061	mg/l	0.01	283461.76	210222.53	2	NO	NO	0.03	POINT (283461.76 210222.53)
SW1	218.15	0	3	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	283461.76	210222.53	8.00E-05	YES	NO	1.38	POINT (283461.76 210222.53)
SW1	218.15	0	3	Chromium (Dissolved)	0.0028	mg/l	0.0005	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	Copper (Dissolved)	0.0011	mg/l	0.0005	283461.76	210222.53	0.001	NO	YES	1.1	POINT (283461.76 210222.53)
SW1	218.15	0	3	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	283461.76	210222.53	0.02	NO	NO	0.02	POINT (283461.76 210222.53)
SW1	218.15	0	3	Zinc (Dissolved)	0.031	mg/l	0.0025	283461.76	210222.53	0.0137	NO	YES	2.26	POINT (283461.76 210222.53)
SW1	218.15	0	3	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	Acenaphthene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	Phenanthrene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	Fluorene	< 0.0001	mg/l	0.0001	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	Naphthalene	< 0.0001	mg/l	0.0001	283461.76	210222.53	0.002	NO	NO	0.05	POINT (283461.76 210222.53)
SW1	218.15	0	3	Manganese (Dissolved)	0.015	mg/l	0.0005	283461.76	210222.53	0.123	NO	NO	0.12	POINT (283461.76 210222.53)
SW1	218.15	0	3	Total Of 16 PAH's	< 0.002	mg/l	0.002	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW2	227.21	0	1	Sulphate	130	mg/l	1	284166.74	210489.82	400	NO	NO	0.32	POINT (284166.74 210489.82)
SW2	227.21	0	1	Cyanide (Total)	< 0.05	mg/l	0.05	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	Calcium (Dissolved)	49	mg/l	2	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	Cyanide (Free)	< 0.05	mg/l	0.05	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	Total Phenols	< 0.03	mg/l	0.03	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	Total Hardness as CaCO3	230	mg/l	15	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	Dissolved Organic Carbon	< 2.0	mg/l	2	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	Anthracene	< 0.0001	mg/l	0.0001	284166.74	210489.82	0.0001	NO	NO	1	POINT (284166.74 210489.82)
SW2	227.21	0	1	Pyrene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284166.74	210489.82	0.0034	YES	NO	5.88	POINT (284166.74 210489.82)
SW2	227.21	0	1	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	Fluoranthene	< 0.0001	mg/l	0.0001	284166.74	210489.82	6.30E-06	YES	NO	15.87	POINT (284166.74 210489.82)
SW2	227.21	0	1	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	Acenaphthylene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	Chrysene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284166.74	210489.82	1.70E-07	YES	NO	588.24	POINT (284166.74 210489.82)
SW2	227.21	0	1	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284166.74	210489.82	0.0012	NO	NO	0.42	POINT (284166.74 210489.82)
SW2	227.21	0	1	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284166.74	210489.82	7.00E-05	NO	NO	0.71	POINT (284166.74 210489.82)
SW2	227.21	0	1	Nickel (Dissolved)	0.0055	mg/l	0.0005	284166.74	210489.82	0.004	NO	YES	1.38	POINT (284166.74 210489.82)
SW2	227.21	0	1	Arsenic (Dissolved)	0.00084	mg/l	0.0002	284166.74	210489.82	0.05	NO	NO	0.02	POINT (284166.74 210489.82)
SW2	227.21	0	1	Boron (Dissolved)	0.057	mg/l	0.01	284166.74	210489.82	2	NO	NO	0.03	POINT (284166.74 210489.82)
SW2	227.21	0	1	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284166.74	210489.82	8.00E-05	YES	NO	1.38	POINT (284166.74 210489.82)
SW2	227.21	0	1	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284166.74	210489.82	0.001	NO	NO	0.5	POINT (284166.74 210489.82)
SW2	227.21	0	1	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284166.74	210489.82	0.02	NO	NO	0.02	POINT (284166.74 210489.82)
SW2	227.21	0	1	Zinc (Dissolved)	0.0037	mg/l	0.0025	284166.74	210489.82	0.0137	NO	NO	0.27	POINT (284166.74 210489.82)

Appendix I.3

Table 3 Surface Water Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SW2	227.21	0	1	Selenium (Dissolved)	0.0013	mg/l	0.0005	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	Acenaphthene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	Phenanthrene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	Fluorene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	1	Naphthalene	< 0.0001	mg/l	0.0001	284166.74	210489.82	0.002	NO	NO	0.05	POINT (284166.74 210489.82)
SW2	227.21	0	1	Manganese (Dissolved)	0.15	mg/l	0.0005	284166.74	210489.82	0.123	NO	YES	1.22	POINT (284166.74 210489.82)
SW2	227.21	0	1	Total Of 16 PAH's	< 0.002	mg/l	0.002	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	Sulphate	130	mg/l	1	284166.74	210489.82	400	NO	NO	0.32	POINT (284166.74 210489.82)
SW2	227.21	0	2	Cyanide (Total)	< 0.05	mg/l	0.05	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	Calcium (Dissolved)	32	mg/l	2	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	Cyanide (Free)	< 0.05	mg/l	0.05	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	Total Phenols	< 0.03	mg/l	0.03	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	Total Hardness as CaCO3	190	mg/l	15	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	Dissolved Organic Carbon	2.3	mg/l	2	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	Anthracene	< 0.0001	mg/l	0.0001	284166.74	210489.82	0.0001	NO	NO	1	POINT (284166.74 210489.82)
SW2	227.21	0	2	Pyrene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284166.74	210489.82	0.0034	YES	NO	5.88	POINT (284166.74 210489.82)
SW2	227.21	0	2	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	Fluoranthene	< 0.0001	mg/l	0.0001	284166.74	210489.82	6.30E-06	YES	NO	15.87	POINT (284166.74 210489.82)
SW2	227.21	0	2	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	Acenaphthylene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	Chrysene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284166.74	210489.82	1.70E-07	YES	NO	588.24	POINT (284166.74 210489.82)
SW2	227.21	0	2	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284166.74	210489.82	0.0012	NO	NO	0.42	POINT (284166.74 210489.82)
SW2	227.21	0	2	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284166.74	210489.82	7.00E-05	NO	NO	0.71	POINT (284166.74 210489.82)
SW2	227.21	0	2	Nickel (Dissolved)	0.0044	mg/l	0.0005	284166.74	210489.82	0.004	NO	YES	1.1	POINT (284166.74 210489.82)
SW2	227.21	0	2	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284166.74	210489.82	0.05	NO	NO	0	POINT (284166.74 210489.82)
SW2	227.21	0	2	Boron (Dissolved)	0.054	mg/l	0.01	284166.74	210489.82	2	NO	NO	0.03	POINT (284166.74 210489.82)
SW2	227.21	0	2	Cadmium (Dissolved)	0.00018	mg/l	0.00011	284166.74	210489.82	8.00E-05	YES	YES	2.25	POINT (284166.74 210489.82)
SW2	227.21	0	2	Chromium (Dissolved)	0.0027	mg/l	0.0005	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	Copper (Dissolved)	0.00055	mg/l	0.0005	284166.74	210489.82	0.001	NO	NO	0.55	POINT (284166.74 210489.82)
SW2	227.21	0	2	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284166.74	210489.82	0.02	NO	NO	0.02	POINT (284166.74 210489.82)
SW2	227.21	0	2	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284166.74	210489.82	0.0137	NO	NO	0.18	POINT (284166.74 210489.82)
SW2	227.21	0	2	Selenium (Dissolved)	0.0012	mg/l	0.0005	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	Acenaphthene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	Phenanthrene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	Fluorene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	Naphthalene	< 0.0001	mg/l	0.0001	284166.74	210489.82	0.002	NO	NO	0.05	POINT (284166.74 210489.82)
SW2	227.21	0	2	Manganese (Dissolved)	0.0064	mg/l	0.0005	284166.74	210489.82	0.123	NO	NO	0.05	POINT (284166.74 210489.82)
SW2	227.21	0	2	Total Of 16 PAH's	< 0.002	mg/l	0.002	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	Sulphate	120	mg/l	1	284166.74	210489.82	400	NO	NO	0.3	POINT (284166.74 210489.82)
SW2	227.21	0	3	Cyanide (Total)	< 0.05	mg/l	0.05	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	Calcium (Dissolved)	29	mg/l	2	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)

Appendix I.3

Table 3 Surface Water Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SW2	227.21	0	3	Cyanide (Free)	< 0.05	mg/l	0.05	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	Total Phenols	< 0.03	mg/l	0.03	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	Total Hardness as CaCO3	190	mg/l	15	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	Dissolved Organic Carbon	< 2.0	mg/l	2	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	Anthracene	< 0.0001	mg/l	0.0001	284166.74	210489.82	0.0001	NO	NO	1	POINT (284166.74 210489.82)
SW2	227.21	0	3	Pyrene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284166.74	210489.82	0.0034	YES	NO	5.88	POINT (284166.74 210489.82)
SW2	227.21	0	3	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	Fluoranthene	< 0.0001	mg/l	0.0001	284166.74	210489.82	6.30E-06	YES	NO	15.87	POINT (284166.74 210489.82)
SW2	227.21	0	3	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	Acenaphthylene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	Chrysene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284166.74	210489.82	1.70E-07	YES	NO	588.24	POINT (284166.74 210489.82)
SW2	227.21	0	3	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284166.74	210489.82	0.0012	NO	NO	0.42	POINT (284166.74 210489.82)
SW2	227.21	0	3	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284166.74	210489.82	7.00E-05	NO	NO	0.71	POINT (284166.74 210489.82)
SW2	227.21	0	3	Nickel (Dissolved)	0.0051	mg/l	0.0005	284166.74	210489.82	0.004	NO	YES	1.27	POINT (284166.74 210489.82)
SW2	227.21	0	3	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	284166.74	210489.82	0.05	NO	NO	0	POINT (284166.74 210489.82)
SW2	227.21	0	3	Boron (Dissolved)	0.061	mg/l	0.01	284166.74	210489.82	2	NO	NO	0.03	POINT (284166.74 210489.82)
SW2	227.21	0	3	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284166.74	210489.82	8.00E-05	YES	NO	1.38	POINT (284166.74 210489.82)
SW2	227.21	0	3	Chromium (Dissolved)	0.0028	mg/l	0.0005	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	Copper (Dissolved)	< 0.0005	mg/l	0.0005	284166.74	210489.82	0.001	NO	NO	0.5	POINT (284166.74 210489.82)
SW2	227.21	0	3	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284166.74	210489.82	0.02	NO	NO	0.02	POINT (284166.74 210489.82)
SW2	227.21	0	3	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284166.74	210489.82	0.0137	NO	NO	0.18	POINT (284166.74 210489.82)
SW2	227.21	0	3	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	Acenaphthene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	Phenanthrene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	Fluorene	< 0.0001	mg/l	0.0001	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	Naphthalene	< 0.0001	mg/l	0.0001	284166.74	210489.82	0.002	NO	NO	0.05	POINT (284166.74 210489.82)
SW2	227.21	0	3	Manganese (Dissolved)	0.02	mg/l	0.0005	284166.74	210489.82	0.123	NO	NO	0.16	POINT (284166.74 210489.82)
SW2	227.21	0	3	Total Of 16 PAH's	< 0.002	mg/l	0.002	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW3	224.97	0	1	Sulphate	75	mg/l	1	285586.86	210282.66	400	NO	NO	0.19	POINT (285586.86 210282.66)
SW3	224.97	0	1	Cyanide (Total)	< 0.05	mg/l	0.05	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	Calcium (Dissolved)	28	mg/l	2	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	Cyanide (Free)	< 0.05	mg/l	0.05	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	Total Phenols	< 0.03	mg/l	0.03	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	Total Hardness as CaCO3	270	mg/l	15	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	Dissolved Organic Carbon	< 2.0	mg/l	2	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	Anthracene	< 0.0001	mg/l	0.0001	285586.86	210282.66	0.0001	NO	NO	1	POINT (285586.86 210282.66)
SW3	224.97	0	1	Pyrene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	Chromium (Hexavalent)	< 0.02	mg/l	0.02	285586.86	210282.66	0.0034	YES	NO	5.88	POINT (285586.86 210282.66)
SW3	224.97	0	1	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)

Appendix I.3

Table 3 Surface Water Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SW3	224.97	0	1	Fluoranthene	< 0.0001	mg/l	0.0001	285586.86	210282.66	6.30E-06	YES	NO	15.87	POINT (285586.86 210282.66)
SW3	224.97	0	1	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	Acenaphthylene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	Chrysene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	285586.86	210282.66	1.70E-07	YES	NO	588.24	POINT (285586.86 210282.66)
SW3	224.97	0	1	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	Lead (Dissolved)	< 0.0005	mg/l	0.0005	285586.86	210282.66	0.0012	NO	NO	0.42	POINT (285586.86 210282.66)
SW3	224.97	0	1	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	285586.86	210282.66	7.00E-05	NO	NO	0.71	POINT (285586.86 210282.66)
SW3	224.97	0	1	Nickel (Dissolved)	0.001	mg/l	0.0005	285586.86	210282.66	0.004	NO	NO	0.25	POINT (285586.86 210282.66)
SW3	224.97	0	1	Arsenic (Dissolved)	0.00035	mg/l	0.0002	285586.86	210282.66	0.05	NO	NO	0.01	POINT (285586.86 210282.66)
SW3	224.97	0	1	Boron (Dissolved)	0.015	mg/l	0.01	285586.86	210282.66	2	NO	NO	0.01	POINT (285586.86 210282.66)
SW3	224.97	0	1	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	285586.86	210282.66	8.00E-05	YES	NO	1.38	POINT (285586.86 210282.66)
SW3	224.97	0	1	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	Copper (Dissolved)	0.00065	mg/l	0.0005	285586.86	210282.66	0.001	NO	NO	0.65	POINT (285586.86 210282.66)
SW3	224.97	0	1	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	285586.86	210282.66	0.02	NO	NO	0.02	POINT (285586.86 210282.66)
SW3	224.97	0	1	Zinc (Dissolved)	0.0059	mg/l	0.0025	285586.86	210282.66	0.0137	NO	NO	0.43	POINT (285586.86 210282.66)
SW3	224.97	0	1	Selenium (Dissolved)	0.0018	mg/l	0.0005	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	Acenaphthene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	Phenanthrene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	Fluorene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	Naphthalene	< 0.0001	mg/l	0.0001	285586.86	210282.66	0.002	NO	NO	0.05	POINT (285586.86 210282.66)
SW3	224.97	0	1	Manganese (Dissolved)	0.029	mg/l	0.0005	285586.86	210282.66	0.123	NO	NO	0.24	POINT (285586.86 210282.66)
SW3	224.97	0	1	Total Of 16 PAH's	< 0.002	mg/l	0.002	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	Sulphate	79	mg/l	1	285586.86	210282.66	400	NO	NO	0.2	POINT (285586.86 210282.66)
SW3	224.97	0	2	Cyanide (Total)	< 0.05	mg/l	0.05	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	Calcium (Dissolved)	34	mg/l	2	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	Cyanide (Free)	< 0.05	mg/l	0.05	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	Total Phenols	< 0.03	mg/l	0.03	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	Total Hardness as CaCO3	300	mg/l	15	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	Dissolved Organic Carbon	2.2	mg/l	2	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	Anthracene	< 0.0001	mg/l	0.0001	285586.86	210282.66	0.0001	NO	NO	1	POINT (285586.86 210282.66)
SW3	224.97	0	2	Pyrene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	Chromium (Hexavalent)	< 0.02	mg/l	0.02	285586.86	210282.66	0.0034	YES	NO	5.88	POINT (285586.86 210282.66)
SW3	224.97	0	2	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	Fluoranthene	< 0.0001	mg/l	0.0001	285586.86	210282.66	6.30E-06	YES	NO	15.87	POINT (285586.86 210282.66)
SW3	224.97	0	2	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	Acenaphthylene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	Chrysene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	285586.86	210282.66	1.70E-07	YES	NO	588.24	POINT (285586.86 210282.66)
SW3	224.97	0	2	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	Lead (Dissolved)	< 0.0005	mg/l	0.0005	285586.86	210282.66	0.0012	NO	NO	0.42	POINT (285586.86 210282.66)
SW3	224.97	0	2	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	285586.86	210282.66	7.00E-05	NO	NO	0.71	POINT (285586.86 210282.66)
SW3	224.97	0	2	Nickel (Dissolved)	0.001	mg/l	0.0005	285586.86	210282.66	0.004	NO	NO	0.25	POINT (285586.86 210282.66)

Appendix I.3

Table 3 Surface Water Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SW3	224.97	0	2	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	285586.86	210282.66	0.05	NO	NO	0	POINT (285586.86 210282.66)
SW3	224.97	0	2	Boron (Dissolved)	0.018	mg/l	0.01	285586.86	210282.66	2	NO	NO	0.01	POINT (285586.86 210282.66)
SW3	224.97	0	2	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	285586.86	210282.66	8.00E-05	YES	NO	1.38	POINT (285586.86 210282.66)
SW3	224.97	0	2	Chromium (Dissolved)	0.0013	mg/l	0.0005	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	Copper (Dissolved)	0.00057	mg/l	0.0005	285586.86	210282.66	0.001	NO	NO	0.57	POINT (285586.86 210282.66)
SW3	224.97	0	2	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	285586.86	210282.66	0.02	NO	NO	0.02	POINT (285586.86 210282.66)
SW3	224.97	0	2	Zinc (Dissolved)	0.0039	mg/l	0.0025	285586.86	210282.66	0.0137	NO	NO	0.28	POINT (285586.86 210282.66)
SW3	224.97	0	2	Selenium (Dissolved)	0.0014	mg/l	0.0005	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	Acenaphthene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	Phenanthrene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	Fluorene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	Naphthalene	< 0.0001	mg/l	0.0001	285586.86	210282.66	0.002	NO	NO	0.05	POINT (285586.86 210282.66)
SW3	224.97	0	2	Manganese (Dissolved)	0.011	mg/l	0.0005	285586.86	210282.66	0.123	NO	NO	0.09	POINT (285586.86 210282.66)
SW3	224.97	0	2	Total Of 16 PAH's	< 0.002	mg/l	0.002	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	Sulphate	87	mg/l	1	285586.86	210282.66	400	NO	NO	0.22	POINT (285586.86 210282.66)
SW3	224.97	0	3	Cyanide (Total)	< 0.05	mg/l	0.05	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	Calcium (Dissolved)	42	mg/l	2	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	Cyanide (Free)	< 0.05	mg/l	0.05	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	Total Phenols	< 0.03	mg/l	0.03	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	Total Hardness as CaCO3	340	mg/l	15	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	Dissolved Organic Carbon	< 2.0	mg/l	2	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	Anthracene	< 0.0001	mg/l	0.0001	285586.86	210282.66	0.0001	NO	NO	1	POINT (285586.86 210282.66)
SW3	224.97	0	3	Pyrene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	Chromium (Hexavalent)	< 0.02	mg/l	0.02	285586.86	210282.66	0.0034	YES	NO	5.88	POINT (285586.86 210282.66)
SW3	224.97	0	3	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	Fluoranthene	< 0.0001	mg/l	0.0001	285586.86	210282.66	6.30E-06	YES	NO	15.87	POINT (285586.86 210282.66)
SW3	224.97	0	3	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	Acenaphthylene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	Chrysene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	285586.86	210282.66	1.70E-07	YES	NO	588.24	POINT (285586.86 210282.66)
SW3	224.97	0	3	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	Lead (Dissolved)	< 0.0005	mg/l	0.0005	285586.86	210282.66	0.0012	NO	NO	0.42	POINT (285586.86 210282.66)
SW3	224.97	0	3	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	285586.86	210282.66	7.00E-05	NO	NO	0.71	POINT (285586.86 210282.66)
SW3	224.97	0	3	Nickel (Dissolved)	0.0012	mg/l	0.0005	285586.86	210282.66	0.004	NO	NO	0.3	POINT (285586.86 210282.66)
SW3	224.97	0	3	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	285586.86	210282.66	0.05	NO	NO	0	POINT (285586.86 210282.66)
SW3	224.97	0	3	Boron (Dissolved)	0.018	mg/l	0.01	285586.86	210282.66	2	NO	NO	0.01	POINT (285586.86 210282.66)
SW3	224.97	0	3	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	285586.86	210282.66	8.00E-05	YES	NO	1.38	POINT (285586.86 210282.66)
SW3	224.97	0	3	Chromium (Dissolved)	0.0013	mg/l	0.0005	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	Copper (Dissolved)	< 0.0005	mg/l	0.0005	285586.86	210282.66	0.001	NO	NO	0.5	POINT (285586.86 210282.66)
SW3	224.97	0	3	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	285586.86	210282.66	0.02	NO	NO	0.02	POINT (285586.86 210282.66)
SW3	224.97	0	3	Zinc (Dissolved)	0.009	mg/l	0.0025	285586.86	210282.66	0.0137	NO	NO	0.66	POINT (285586.86 210282.66)
SW3	224.97	0	3	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	Acenaphthene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	Phenanthrene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)

Appendix I.3

Table 3 Surface Water Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SW3	224.97	0	3	Fluorene	< 0.0001	mg/l	0.0001	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	Naphthalene	< 0.0001	mg/l	0.0001	285586.86	210282.66	0.002	NO	NO	0.05	POINT (285586.86 210282.66)
SW3	224.97	0	3	Manganese (Dissolved)	0.066	mg/l	0.0005	285586.86	210282.66	0.123	NO	NO	0.54	POINT (285586.86 210282.66)
SW3	224.97	0	3	Total Of 16 PAH's	< 0.002	mg/l	0.002	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW4	228.8	0	1	Sulphate	< 1.0	mg/l	1	284293.73	210655.02	400	NO	NO	0	POINT (284293.73 210655.02)
SW4	228.8	0	1	Cyanide (Total)	< 0.05	mg/l	0.05	284293.73	210655.02		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	Calcium (Dissolved)	22	mg/l	2	284293.73	210655.02		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	Cyanide (Free)	< 0.05	mg/l	0.05	284293.73	210655.02		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	Total Phenols	< 0.03	mg/l	0.03	284293.73	210655.02		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	Total Hardness as CaCO3	160	mg/l	15	284293.73	210655.02		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	Dissolved Organic Carbon	2.8	mg/l	2	284293.73	210655.02		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	Anthracene	< 0.0001	mg/l	0.0001	284293.73	210655.02	0.0001	NO	NO	1	POINT (284293.73 210655.02)
SW4	228.8	0	1	Pyrene	< 0.0001	mg/l	0.0001	284293.73	210655.02		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284293.73	210655.02	0.0034	YES	NO	5.88	POINT (284293.73 210655.02)
SW4	228.8	0	1	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284293.73	210655.02		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284293.73	210655.02		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284293.73	210655.02		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	Fluoranthene	< 0.0001	mg/l	0.0001	284293.73	210655.02	6.30E-06	YES	NO	15.87	POINT (284293.73 210655.02)
SW4	228.8	0	1	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284293.73	210655.02		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	Acenaphthylene	< 0.0001	mg/l	0.0001	284293.73	210655.02		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	Chrysene	< 0.0001	mg/l	0.0001	284293.73	210655.02		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284293.73	210655.02	1.70E-07	YES	NO	588.24	POINT (284293.73 210655.02)
SW4	228.8	0	1	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284293.73	210655.02		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284293.73	210655.02		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284293.73	210655.02	0.0012	NO	NO	0.42	POINT (284293.73 210655.02)
SW4	228.8	0	1	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284293.73	210655.02	7.00E-05	NO	NO	0.71	POINT (284293.73 210655.02)
SW4	228.8	0	1	Nickel (Dissolved)	0.0053	mg/l	0.0005	284293.73	210655.02	0.004	NO	YES	1.32	POINT (284293.73 210655.02)
SW4	228.8	0	1	Arsenic (Dissolved)	0.00068	mg/l	0.0002	284293.73	210655.02	0.05	NO	NO	0.01	POINT (284293.73 210655.02)
SW4	228.8	0	1	Boron (Dissolved)	0.061	mg/l	0.01	284293.73	210655.02	2	NO	NO	0.03	POINT (284293.73 210655.02)
SW4	228.8	0	1	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284293.73	210655.02	8.00E-05	YES	NO	1.38	POINT (284293.73 210655.02)
SW4	228.8	0	1	Chromium (Dissolved)	0.014	mg/l	0.0005	284293.73	210655.02		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	Copper (Dissolved)	0.0013	mg/l	0.0005	284293.73	210655.02	0.001	NO	YES	1.3	POINT (284293.73 210655.02)
SW4	228.8	0	1	Vanadium (Dissolved)	0.0006	mg/l	0.0005	284293.73	210655.02	0.02	NO	NO	0.03	POINT (284293.73 210655.02)
SW4	228.8	0	1	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284293.73	210655.02	0.0137	NO	NO	0.18	POINT (284293.73 210655.02)
SW4	228.8	0	1	Selenium (Dissolved)	0.0022	mg/l	0.0005	284293.73	210655.02		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	Acenaphthene	< 0.0001	mg/l	0.0001	284293.73	210655.02		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	Phenanthrene	< 0.0001	mg/l	0.0001	284293.73	210655.02		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	Fluorene	< 0.0001	mg/l	0.0001	284293.73	210655.02		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	Naphthalene	< 0.0001	mg/l	0.0001	284293.73	210655.02	0.002	NO	NO	0.05	POINT (284293.73 210655.02)
SW4	228.8	0	1	Manganese (Dissolved)	0.0013	mg/l	0.0005	284293.73	210655.02	0.123	NO	NO	0.01	POINT (284293.73 210655.02)
SW4	228.8	0	1	Total Of 16 PAH's	< 0.002	mg/l	0.002	284293.73	210655.02		NO	NO		POINT (284293.73 210655.02)
SW5	228.3	0	1	Sulphate	< 1.0	mg/l	1	284256.4	210612.47	400	NO	NO	0	POINT (284256.4 210612.47)
SW5	228.3	0	1	Cyanide (Total)	< 0.05	mg/l	0.05	284256.4	210612.47		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	Calcium (Dissolved)	21	mg/l	2	284256.4	210612.47		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	Cyanide (Free)	< 0.05	mg/l	0.05	284256.4	210612.47		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	Total Phenols	< 0.03	mg/l	0.03	284256.4	210612.47		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	Total Hardness as CaCO3	150	mg/l	15	284256.4	210612.47		NO	NO		POINT (284256.4 210612.47)

Appendix I.3

Table 3 Surface Water Screening EQS

Location ID	Ground Level (m AOD)	Depth to Top (m bgl)	Sample Reference	Determinand	Result	Unit	LOD	Easting	Northing	GAC	LOD above GAC	GAC Exceedance	Relative Exceedance	geometry
SW5	228.3	0	1	Dissolved Organic Carbon	2.7	mg/l	2	284256.4	210612.47		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	Anthracene	< 0.0001	mg/l	0.0001	284256.4	210612.47	0.0001	NO	NO	1	POINT (284256.4 210612.47)
SW5	228.3	0	1	Pyrene	< 0.0001	mg/l	0.0001	284256.4	210612.47		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284256.4	210612.47	0.0034	YES	NO	5.88	POINT (284256.4 210612.47)
SW5	228.3	0	1	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284256.4	210612.47		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284256.4	210612.47		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284256.4	210612.47		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	Fluoranthene	< 0.0001	mg/l	0.0001	284256.4	210612.47	6.30E-06	YES	NO	15.87	POINT (284256.4 210612.47)
SW5	228.3	0	1	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284256.4	210612.47		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	Acenaphthylene	< 0.0001	mg/l	0.0001	284256.4	210612.47		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	Chrysene	< 0.0001	mg/l	0.0001	284256.4	210612.47		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284256.4	210612.47	1.70E-07	YES	NO	588.24	POINT (284256.4 210612.47)
SW5	228.3	0	1	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284256.4	210612.47		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284256.4	210612.47		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284256.4	210612.47	0.0012	NO	NO	0.42	POINT (284256.4 210612.47)
SW5	228.3	0	1	Mercury (Dissolved)	< 5e-05	mg/l	5.00E-05	284256.4	210612.47	7.00E-05	NO	NO	0.71	POINT (284256.4 210612.47)
SW5	228.3	0	1	Nickel (Dissolved)	0.0053	mg/l	0.0005	284256.4	210612.47	0.004	NO	YES	1.32	POINT (284256.4 210612.47)
SW5	228.3	0	1	Arsenic (Dissolved)	0.00068	mg/l	0.0002	284256.4	210612.47	0.05	NO	NO	0.01	POINT (284256.4 210612.47)
SW5	228.3	0	1	Boron (Dissolved)	0.056	mg/l	0.01	284256.4	210612.47	2	NO	NO	0.03	POINT (284256.4 210612.47)
SW5	228.3	0	1	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284256.4	210612.47	8.00E-05	YES	NO	1.38	POINT (284256.4 210612.47)
SW5	228.3	0	1	Chromium (Dissolved)	0.022	mg/l	0.0005	284256.4	210612.47		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	Copper (Dissolved)	0.0012	mg/l	0.0005	284256.4	210612.47	0.001	NO	YES	1.2	POINT (284256.4 210612.47)
SW5	228.3	0	1	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284256.4	210612.47	0.02	NO	NO	0.02	POINT (284256.4 210612.47)
SW5	228.3	0	1	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284256.4	210612.47	0.0137	NO	NO	0.18	POINT (284256.4 210612.47)
SW5	228.3	0	1	Selenium (Dissolved)	0.0026	mg/l	0.0005	284256.4	210612.47		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	Acenaphthene	< 0.0001	mg/l	0.0001	284256.4	210612.47		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	Phenanthrene	< 0.0001	mg/l	0.0001	284256.4	210612.47		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	Fluorene	< 0.0001	mg/l	0.0001	284256.4	210612.47		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	Naphthalene	< 0.0001	mg/l	0.0001	284256.4	210612.47	0.002	NO	NO	0.05	POINT (284256.4 210612.47)
SW5	228.3	0	1	Manganese (Dissolved)	0.0012	mg/l	0.0005	284256.4	210612.47	0.123	NO	NO	0.01	POINT (284256.4 210612.47)
SW5	228.3	0	1	Total Of 16 PAH's	< 0.002	mg/l	0.002	284256.4	210612.47		NO	NO		POINT (284256.4 210612.47)
SW1	218.15	0	1	PAH Sum of 4 - calculated		mg/l	0.0004	283461.76	210222.53		NO	NO		POINT (283461.76 210222.53)
SW2	227.21	0	1	PAH Sum of 4 - calculated		mg/l	0.0004	284166.74	210489.82		NO	NO		POINT (284166.74 210489.82)
SW3	224.97	0	1	PAH Sum of 4 - calculated		mg/l	0.0004	285586.86	210282.66		NO	NO		POINT (285586.86 210282.66)
SW4	228.8	0	1	PAH Sum of 4 - calculated		mg/l	0.0004	284293.73	210655.02		NO	NO		POINT (284293.73 210655.02)
SW5	228.3	0	1	PAH Sum of 4 - calculated		mg/l	0.0004	284256.4	210612.47		NO	NO		POINT (284256.4 210612.47)
SW1	218.15	0	1	pH	7.5	-	0	283461.76	210222.53	6.0-9.0		NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	pH	8.5	-	0	283461.76	210222.53	6.0-9.0		NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	pH	7	-	0	283461.76	210222.53	6.0-9.0		NO		POINT (283461.76 210222.53)
SW2	227.21	0	1	pH	7.9	-	0	284166.74	210489.82	6.0-9.0		NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	pH	8.6	-	0	284166.74	210489.82	6.0-9.0		NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	pH	7.5	-	0	284166.74	210489.82	6.0-9.0		NO		POINT (284166.74 210489.82)
SW3	224.97	0	1	pH	8.2	-	0	285586.86	210282.66	6.0-9.0		NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	pH	8.4	-	0	285586.86	210282.66	6.0-9.0		NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	pH	7.6	-	0	285586.86	210282.66	6.0-9.0		NO		POINT (285586.86 210282.66)
SW4	228.8	0	1	pH	8.2	-	0	284293.73	210655.02	6.0-9.0		NO		POINT (284293.73 210655.02)
SW5	228.3	0	1	pH	8.4	-	0	284256.4	210612.47	6.0-9.0		NO		POINT (284256.4 210612.47)

Appendix I.3

Table 4 Surface Water 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
SW1	218.15	0	1	17/01/2023	Sulphate	81	mg/l	1	283461.8	210222.5	250	NO	NO	0.32	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	0.05	NO	NO	1	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		NO	NO		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		NO	NO		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		NO	NO		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		NO	NO		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		NO	NO		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	0.00001	YES	NO	10	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	0.01	NO	NO	0.05	POINT (283461.76 210222.53)
SW1	218.15	0	1	17/01/2023	Mercury (Dissolved)	< 5e-05	mg/l	0.00005	283461.8	210222.5	0.001	NO	NO	0.05	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	0.02	NO	NO	0.16	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	0.01	NO	NO	0.06	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	1	NO	NO	0.04	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	0.005	NO	NO	0.02	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	0.05	NO	NO	0.01	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	2	NO	NO	0	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		NO	NO		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	3	NO	NO	0	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	0.01	NO	NO	0.16	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		NO	NO		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	0.05	NO	NO	1	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	250	NO	NO	0.44	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	0.05	NO	NO	1	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		NO	NO		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		NO	NO		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		NO	NO		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		NO	NO		POINT (283461.76 210222.53)

Appendix I.3

Table 4 Surface Water 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
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		NO	NO		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	0.00001	YES	NO	10	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	0.01	NO	NO	0.05	POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	0.00005	283461.8	210222.5	0.001	NO	NO	0.05	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	0.02	NO	NO	0.16	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	0.01	NO	NO	0.07	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	1	NO	NO	0.05	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	0.005	NO	NO	0.02	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	0.05	NO	NO	0.05	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	2	NO	NO	0	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		NO	NO		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	3	NO	NO	0	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	0.01	NO	NO	0.1	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		NO	NO		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	0.05	NO	NO	0.11	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	250	NO	NO	0.44	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	0.05	NO	NO	1	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		NO	NO		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		NO	NO		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		NO	NO		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		NO	NO		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		NO	NO		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	0.00001	YES	NO	10	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 4 Surface Water 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
SW1	218.15	0	3	14/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	283461.8	210222.5	0.01	NO	NO	0.05	POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	0.00005	283461.8	210222.5	0.001	NO	NO	0.05	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	0.02	NO	NO	0.22	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	0.01	NO	NO	0.02	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	1	NO	NO	0.06	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	0.005	NO	NO	0.02	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	0.05	NO	NO	0.06	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	2	NO	NO	0	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		NO	NO		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	3	NO	NO	0.01	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	0.01	NO	NO	0.05	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		NO	NO		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	0.05	NO	NO	0.3	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	250	NO	NO	0.52	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	0.05	NO	NO	1	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		NO	NO		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		NO	NO		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		NO	NO		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		NO	NO		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		NO	NO		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	0.00001	YES	NO	10	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	0.01	NO	NO	0.05	POINT (284166.74 210489.82)
SW2	227.21	0	1	17/01/2023	Mercury (Dissolved)	< 5e-05	mg/l	0.00005	284166.7	210489.8	0.001	NO	NO	0.05	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	0.02	NO	NO	0.27	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	0.01	NO	NO	0.08	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	1	NO	NO	0.06	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	0.005	NO	NO	0.02	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	0.05	NO	NO	0.01	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	2	NO	NO	0	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		NO	NO		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	3	NO	NO	0	POINT (284166.74 210489.82)

Appendix I.3

Table 4 Surface Water 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
SW2	227.21	0	1	17/01/2023	Selenium (Dissolved)	0.0013	mg/l	0.0005	284166.7	210489.8	0.01	NO	NO	0.13	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		NO	NO		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	0.05	NO	YES	3	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	250	NO	NO	0.52	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	0.05	NO	NO	1	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		NO	NO		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		NO	NO		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		NO	NO		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		NO	NO		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		NO	NO		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	0.00001	YES	NO	10	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	0.01	NO	NO	0.05	POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	0.00005	284166.7	210489.8	0.001	NO	NO	0.05	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	0.02	NO	NO	0.22	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	0.01	NO	NO	0.02	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	1	NO	NO	0.05	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	0.005	NO	NO	0.04	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	0.05	NO	NO	0.05	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	2	NO	NO	0	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		NO	NO		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	3	NO	NO	0	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	0.01	NO	NO	0.12	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		NO	NO		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	0.05	NO	NO	0.13	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	250	NO	NO	0.48	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	0.05	NO	NO	1	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 4 Surface Water 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
SW2	227.21	0	3	14/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284166.7	210489.8		NO	NO		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		NO	NO		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		NO	NO		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		NO	NO		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		NO	NO		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	0.00001	YES	NO	10	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	0.01	NO	NO	0.05	POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	0.00005	284166.7	210489.8	0.001	NO	NO	0.05	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	0.02	NO	NO	0.25	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	0.01	NO	NO	0.02	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	1	NO	NO	0.06	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	0.005	NO	NO	0.02	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	0.05	NO	NO	0.06	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	2	NO	NO	0	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		NO	NO		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	3	NO	NO	0	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	0.01	NO	NO	0.05	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		NO	NO		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	0.05	NO	NO	0.4	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	250	NO	NO	0.3	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	0.05	NO	NO	1	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		NO	NO		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		NO	NO		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		NO	NO		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		NO	NO		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)

Appendix I.3

Table 4 Surface Water 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
SW3	224.97	0	1	17/01/2023	Fluoranthene	< 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[k]fluoranthene	< 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	Acenaphthylene	< 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	Chrysene	< 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[a]pyrene	< 0.0001	mg/l	0.0001	285586.9	210282.7	0.00001	YES	NO	10	POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Dibenz(a,h)Anthracene	< 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[a]anthracene	< 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	Lead (Dissolved)	< 0.0005	mg/l	0.0005	285586.9	210282.7	0.01	NO	NO	0.05	POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Mercury (Dissolved)	< 5e-05	mg/l	0.00005	285586.9	210282.7	0.001	NO	NO	0.05	POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Nickel (Dissolved)	0.001	mg/l	0.0005	285586.9	210282.7	0.02	NO	NO	0.05	POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Arsenic (Dissolved)	0.00035	mg/l	0.0002	285586.9	210282.7	0.01	NO	NO	0.03	POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Boron (Dissolved)	0.015	mg/l	0.01	285586.9	210282.7	1	NO	NO	0.02	POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	285586.9	210282.7	0.005	NO	NO	0.02	POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Chromium (Dissolved)	< 0.0005	mg/l	0.0005	285586.9	210282.7	0.05	NO	NO	0.01	POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Copper (Dissolved)	0.00065	mg/l	0.0005	285586.9	210282.7	2	NO	NO	0	POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Zinc (Dissolved)	0.0059	mg/l	0.0025	285586.9	210282.7	3	NO	NO	0	POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Selenium (Dissolved)	0.0018	mg/l	0.0005	285586.9	210282.7	0.01	NO	NO	0.18	POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Acenaphthene	< 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	Phenanthrene	< 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	Fluorene	< 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	Naphthalene	< 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	Manganese (Dissolved)	0.029	mg/l	0.0005	285586.9	210282.7	0.05	NO	NO	0.58	POINT (285586.86 210282.66)
SW3	224.97	0	1	17/01/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Sulphate	79	mg/l	1	285586.9	210282.7	250	NO	NO	0.32	POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	285586.9	210282.7	0.05	NO	NO	1	POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Calcium (Dissolved)	34	mg/l	2	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Total Phenols	< 0.03	mg/l	0.03	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Total Hardness as CaCO3	300	mg/l	15	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Dissolved Organic Carbon	2.2	mg/l	2	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Anthracene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Pyrene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	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	2	02/02/2023	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	2	02/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Chrysene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	285586.9	210282.7	0.00001	YES	NO	10	POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	285586.9	210282.7	0.01	NO	NO	0.05	POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	0.00005	285586.9	210282.7	0.001	NO	NO	0.05	POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Nickel (Dissolved)	0.001	mg/l	0.0005	285586.9	210282.7	0.02	NO	NO	0.05	POINT (285586.86 210282.66)

Appendix I.3

Table 4 Surface Water 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
SW3	224.97	0	2	02/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	285586.9	210282.7	0.01	NO	NO	0.02	POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Boron (Dissolved)	0.018	mg/l	0.01	285586.9	210282.7	1	NO	NO	0.02	POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	285586.9	210282.7	0.005	NO	NO	0.02	POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Chromium (Dissolved)	0.0013	mg/l	0.0005	285586.9	210282.7	0.05	NO	NO	0.03	POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Copper (Dissolved)	0.00057	mg/l	0.0005	285586.9	210282.7	2	NO	NO	0	POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Zinc (Dissolved)	0.0039	mg/l	0.0025	285586.9	210282.7	3	NO	NO	0	POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Selenium (Dissolved)	0.0014	mg/l	0.0005	285586.9	210282.7	0.01	NO	NO	0.14	POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Fluorene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Manganese (Dissolved)	0.011	mg/l	0.0005	285586.9	210282.7	0.05	NO	NO	0.22	POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Sulphate	87	mg/l	1	285586.9	210282.7	250	NO	NO	0.35	POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Cyanide (Total)	< 0.05	mg/l	0.05	285586.9	210282.7	0.05	NO	NO	1	POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Calcium (Dissolved)	42	mg/l	2	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Cyanide (Free)	< 0.05	mg/l	0.05	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Total Phenols	< 0.03	mg/l	0.03	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Total Hardness as CaCO3	340	mg/l	15	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Dissolved Organic Carbon	< 2.0	mg/l	2	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Anthracene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Pyrene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	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	3	14/02/2023	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	3	14/02/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Fluoranthene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Chrysene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	285586.9	210282.7	0.00001	YES	NO	10	POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	285586.9	210282.7	0.01	NO	NO	0.05	POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Mercury (Dissolved)	< 5e-05	mg/l	0.00005	285586.9	210282.7	0.001	NO	NO	0.05	POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Nickel (Dissolved)	0.0012	mg/l	0.0005	285586.9	210282.7	0.02	NO	NO	0.06	POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Arsenic (Dissolved)	< 0.0002	mg/l	0.0002	285586.9	210282.7	0.01	NO	NO	0.02	POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Boron (Dissolved)	0.018	mg/l	0.01	285586.9	210282.7	1	NO	NO	0.02	POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	285586.9	210282.7	0.005	NO	NO	0.02	POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Chromium (Dissolved)	0.0013	mg/l	0.0005	285586.9	210282.7	0.05	NO	NO	0.03	POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Copper (Dissolved)	< 0.0005	mg/l	0.0005	285586.9	210282.7	2	NO	NO	0	POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Zinc (Dissolved)	0.009	mg/l	0.0025	285586.9	210282.7	3	NO	NO	0	POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Selenium (Dissolved)	< 0.0005	mg/l	0.0005	285586.9	210282.7	0.01	NO	NO	0.05	POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Acenaphthene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Phenanthrene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)

Appendix I.3

Table 4 Surface Water 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
SW3	224.97	0	3	14/02/2023	Fluorene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Naphthalene	< 0.0001	mg/l	0.0001	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Manganese (Dissolved)	0.066	mg/l	0.0005	285586.9	210282.7	0.05	NO	YES	1.32	POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	285586.9	210282.7		NO	NO		POINT (285586.86 210282.66)
SW4	228.8	0	1	31/01/2023	Sulphate	< 1.0	mg/l	1	284293.7	210655	250	NO	NO	0	POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284293.7	210655	0.05	NO	NO	1	POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Calcium (Dissolved)	22	mg/l	2	284293.7	210655		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284293.7	210655		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Total Phenols	< 0.03	mg/l	0.03	284293.7	210655		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Total Hardness as CaCO3	160	mg/l	15	284293.7	210655		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Dissolved Organic Carbon	2.8	mg/l	2	284293.7	210655		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Anthracene	< 0.0001	mg/l	0.0001	284293.7	210655		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Pyrene	< 0.0001	mg/l	0.0001	284293.7	210655		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284293.7	210655		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284293.7	210655		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284293.7	210655		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284293.7	210655		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284293.7	210655		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284293.7	210655		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284293.7	210655		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Chrysene	< 0.0001	mg/l	0.0001	284293.7	210655		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284293.7	210655	0.00001	YES	NO	10	POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284293.7	210655		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284293.7	210655		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284293.7	210655	0.01	NO	NO	0.05	POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Mercury (Dissolved)	< 5e-05	mg/l	0.00005	284293.7	210655	0.001	NO	NO	0.05	POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Nickel (Dissolved)	0.0053	mg/l	0.0005	284293.7	210655	0.02	NO	NO	0.26	POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Arsenic (Dissolved)	0.00068	mg/l	0.0002	284293.7	210655	0.01	NO	NO	0.07	POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Boron (Dissolved)	0.061	mg/l	0.01	284293.7	210655	1	NO	NO	0.06	POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284293.7	210655	0.005	NO	NO	0.02	POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Chromium (Dissolved)	0.014	mg/l	0.0005	284293.7	210655	0.05	NO	NO	0.28	POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Copper (Dissolved)	0.0013	mg/l	0.0005	284293.7	210655	2	NO	NO	0	POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Vanadium (Dissolved)	0.0006	mg/l	0.0005	284293.7	210655		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284293.7	210655	3	NO	NO	0	POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Selenium (Dissolved)	0.0022	mg/l	0.0005	284293.7	210655	0.01	NO	NO	0.22	POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284293.7	210655		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284293.7	210655		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Fluorene	< 0.0001	mg/l	0.0001	284293.7	210655		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Naphthalene	< 0.0001	mg/l	0.0001	284293.7	210655		NO	NO		POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Manganese (Dissolved)	0.0013	mg/l	0.0005	284293.7	210655	0.05	NO	NO	0.03	POINT (284293.73 210655.02)
SW4	228.8	0	1	31/01/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284293.7	210655		NO	NO		POINT (284293.73 210655.02)
SW5	228.3	0	1	31/01/2023	Sulphate	< 1.0	mg/l	1	284256.4	210612.5	250	NO	NO	0	POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Cyanide (Total)	< 0.05	mg/l	0.05	284256.4	210612.5	0.05	NO	NO	1	POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Calcium (Dissolved)	21	mg/l	2	284256.4	210612.5		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Cyanide (Free)	< 0.05	mg/l	0.05	284256.4	210612.5		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Total Phenols	< 0.03	mg/l	0.03	284256.4	210612.5		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Total Hardness as CaCO3	150	mg/l	15	284256.4	210612.5		NO	NO		POINT (284256.4 210612.47)

Appendix I.3

Table 4 Surface Water 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
SW5	228.3	0	1	31/01/2023	Dissolved Organic Carbon	2.7	mg/l	2	284256.4	210612.5		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Anthracene	< 0.0001	mg/l	0.0001	284256.4	210612.5		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Pyrene	< 0.0001	mg/l	0.0001	284256.4	210612.5		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Chromium (Hexavalent)	< 0.02	mg/l	0.02	284256.4	210612.5		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Benzo[g,h,i]perylene	< 0.0001	mg/l	0.0001	284256.4	210612.5		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Indeno(1,2,3-c,d)Pyrene	< 0.0001	mg/l	0.0001	284256.4	210612.5		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Benzo[b]fluoranthene	< 0.0001	mg/l	0.0001	284256.4	210612.5		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Fluoranthene	< 0.0001	mg/l	0.0001	284256.4	210612.5		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Benzo[k]fluoranthene	< 0.0001	mg/l	0.0001	284256.4	210612.5		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Acenaphthylene	< 0.0001	mg/l	0.0001	284256.4	210612.5		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Chrysene	< 0.0001	mg/l	0.0001	284256.4	210612.5		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Benzo[a]pyrene	< 0.0001	mg/l	0.0001	284256.4	210612.5	0.00001	YES	NO	10	POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Dibenz(a,h)Anthracene	< 0.0001	mg/l	0.0001	284256.4	210612.5		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Benzo[a]anthracene	< 0.0001	mg/l	0.0001	284256.4	210612.5		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Lead (Dissolved)	< 0.0005	mg/l	0.0005	284256.4	210612.5	0.01	NO	NO	0.05	POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Mercury (Dissolved)	< 5e-05	mg/l	0.00005	284256.4	210612.5	0.001	NO	NO	0.05	POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Nickel (Dissolved)	0.0053	mg/l	0.0005	284256.4	210612.5	0.02	NO	NO	0.26	POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Arsenic (Dissolved)	0.00068	mg/l	0.0002	284256.4	210612.5	0.01	NO	NO	0.07	POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Boron (Dissolved)	0.056	mg/l	0.01	284256.4	210612.5	1	NO	NO	0.06	POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Cadmium (Dissolved)	< 0.00011	mg/l	0.00011	284256.4	210612.5	0.005	NO	NO	0.02	POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Chromium (Dissolved)	0.022	mg/l	0.0005	284256.4	210612.5	0.05	NO	NO	0.44	POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Copper (Dissolved)	0.0012	mg/l	0.0005	284256.4	210612.5	2	NO	NO	0	POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Vanadium (Dissolved)	< 0.0005	mg/l	0.0005	284256.4	210612.5		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Zinc (Dissolved)	< 0.0025	mg/l	0.0025	284256.4	210612.5	3	NO	NO	0	POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Selenium (Dissolved)	0.0026	mg/l	0.0005	284256.4	210612.5	0.01	NO	NO	0.26	POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Acenaphthene	< 0.0001	mg/l	0.0001	284256.4	210612.5		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Phenanthrene	< 0.0001	mg/l	0.0001	284256.4	210612.5		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Fluorene	< 0.0001	mg/l	0.0001	284256.4	210612.5		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Naphthalene	< 0.0001	mg/l	0.0001	284256.4	210612.5		NO	NO		POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Manganese (Dissolved)	0.0012	mg/l	0.0005	284256.4	210612.5	0.05	NO	NO	0.02	POINT (284256.4 210612.47)
SW5	228.3	0	1	31/01/2023	Total Of 16 PAH's	< 0.002	mg/l	0.002	284256.4	210612.5		NO	NO		POINT (284256.4 210612.47)
SW1	218.15	0	1	17/01/2023	PAH Sum of 4 - calculated		mg/l	0.0004	283461.8	210222.5	0.0001	YES	NO	4	POINT (283461.76 210222.53)
SW2	227.21	0	1	17/01/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284166.7	210489.8	0.0001	YES	NO	4	POINT (284166.74 210489.82)
SW3	224.97	0	1	17/01/2023	PAH Sum of 4 - calculated		mg/l	0.0004	285586.9	210282.7	0.0001	YES	NO	4	POINT (285586.86 210282.66)
SW4	228.8	0	1	31/01/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284293.7	210655	0.0001	YES	NO	4	POINT (284293.73 210655.02)
SW5	228.3	0	1	31/01/2023	PAH Sum of 4 - calculated		mg/l	0.0004	284256.4	210612.5	0.0001	YES	NO	4	POINT (284256.4 210612.47)
SW1	218.15	0	1	17/01/2023	pH	7.5	-	0	283461.8	210222.5	6.5-9.5		NO		POINT (283461.76 210222.53)
SW1	218.15	0	2	02/02/2023	pH	8.5	-	0	283461.8	210222.5	6.5-9.5		NO		POINT (283461.76 210222.53)
SW1	218.15	0	3	14/02/2023	pH	7	-	0	283461.8	210222.5	6.5-9.5		NO		POINT (283461.76 210222.53)
SW2	227.21	0	1	17/01/2023	pH	7.9	-	0	284166.7	210489.8	6.5-9.5		NO		POINT (284166.74 210489.82)
SW2	227.21	0	2	02/02/2023	pH	8.6	-	0	284166.7	210489.8	6.5-9.5		NO		POINT (284166.74 210489.82)
SW2	227.21	0	3	14/02/2023	pH	7.5	-	0	284166.7	210489.8	6.5-9.5		NO		POINT (284166.74 210489.82)
SW3	224.97	0	1	17/01/2023	pH	8.2	-	0	285586.9	210282.7	6.5-9.5		NO		POINT (285586.86 210282.66)
SW3	224.97	0	2	02/02/2023	pH	8.4	-	0	285586.9	210282.7	6.5-9.5		NO		POINT (285586.86 210282.66)
SW3	224.97	0	3	14/02/2023	pH	7.6	-	0	285586.9	210282.7	6.5-9.5		NO		POINT (285586.86 210282.66)
SW4	228.8	0	1	31/01/2023	pH	8.2	-	0	284293.7	210655	6.5-9.5		NO		POINT (284293.73 210655.02)
SW5	228.3	0	1	31/01/2023	pH	8.4	-	0	284256.4	210612.5	6.5-9.5		NO		POINT (284256.4 210612.47)

Metal Bioavailability Assessment Tool (M-BAT)

Back

Calculate

Clear Data

INPUT DATA											RESULTS (Copper)				RESULTS (Zinc)				RESULTS (Mn)				RESULTS (Ni)			
ID	Location	Waterbody	Date	Measured Cu Concentration (dissolved) (µg l^{-1})	Measured Zn Concentration (dissolved) (µg l^{-1})	Measured Mn Concentration (dissolved) (µg l^{-1})	Measured Ni Concentration (dissolved) (µg l^{-1})	pH	DOC	Ca	Site-specific PNEC Dissolved Copper (µg l^{-1})	BioF	Bioavailable Copper Concentration (µg l^{-1})	Risk Characterisation Ratio	Site-specific PNEC Dissolved Zinc (µg l^{-1})	BioF	Bioavailable Zinc Concentration (µg l^{-1})	Risk Characterisation Ratio	Site-specific PNEC Dissolved Manganese (µg l^{-1})	BioF	Bioavailable Manganese Concentration (µg l^{-1})	Risk Characterisation Ratio	Site-specific PNEC Dissolved Nickel (µg l^{-1})	BioF	Bioavailable Nickel Concentration (µg l^{-1})	Risk Characterisation Ratio
1	SW1							7.66	2.1	45	7.66	0.13			17.79	0.61			235.38	0.52			9.23	0.43		
2	SW2							8	2.1	36.66	5.65	0.18			17.36	0.63			123.00	1.00			5.79	0.69		
3	SW3							8.01	2.01	34.66	5.34	0.19			16.90	0.65			123.00	1.00			5.42	0.74		
4	SW4							8.2	2.8	22	6.37	0.16			19.10	0.57			123.00	1.00			4.28	0.93		
5	SW5							8.4	2.7	21	4.74	0.21			18.60	0.59			123.00	1.00			4.00	1.00		

Pb Screening Tool 1.0

Back

Calculate

Clear Data

INPUT DATA						RESULTS (Pb)			
ID	Location	Waterbody	Date	Measured Pb Concentration (dissolved) (µg l^{-1})	DOC	Site Specific PNEC Dissolved Pb (µg l^{-1})	BioF	Available Pb (µg l^{-1})	Risk Characterisation Ratio
1		SW1			2.10	2.52	0.48	0.00	
2		SW2			2.10	2.52	0.48	0.00	
3		SW3			2.01	2.41	0.50	0.00	
4		SW4			2.80	3.36	0.36	0.00	
5		SW5			2.70	3.24	0.37	0.00	

Appendix I5
Table 1 Gas Screening Summary

Project: GCRE
Project Number: 5209796
Client: Walters

Key: CS1 CS2 CS3 CS4 CS5 CS6 CS6

Borehole	Oxygen %v/v		Methane %v/v		Carbon Dioxide %v/v		Flow l/hr		H2S ppm	CO ppm	Hazardous Gas Values (calculated using temporaily unrelated max steady concentration and max steady state flow)		Maximum GSV	Characterisation Situation
	Min Min	Min Steady	Max Max	Max Steady	Max Max	Max Steady	Max Max	Max Steady	Max	Max	CH4	CO2		
BH29	17.80	17.80	0.70	0.70	2.90	2.90	0.0	0.0	0.0	0.0	0.00	0.00	0.00	CS1
BH30	3.20	3.20	0.80	0.80	5.20	5.20	0.4	0.4	0.0	0.0	0.00	0.02	0.02	CS1
BH31 (shallow)	16.10	16.10	0.10	0.10	4.80	4.80	-0.8	-0.8	0.0	0.0	0.00	0.04	0.04	CS1
BH31 (Deep)	18.60	18.60	0.10	0.10	2.40	2.40	-0.8	-0.8	0.0	0.0	0.00	0.02	0.02	CS1
BH33	17.30	17.30	0.10	0.10	2.80	2.80	0.3	0.3	0.0	0.0	0.00	0.01	0.01	CS1
BH34 (Shallow)	10.40	10.40	0.60	0.60	5.40	5.40	0.1	0.1	0.0	0.0	0.00	0.01	0.01	CS1
BH34 (deep)	4.90	4.90	60.30	60.30	3.50	3.50	0.0	0.0	0.0	0.0	0.00	0.00	0.00	CS1
S1-BH101	18.80	18.90	0.10	0.10	1.50	1.50	-7.3	-7.3	1.5	23.0	0.01	0.11	0.11	CS2
S1-BH102	14.40	14.40	8.90	8.90	4.50	4.50	-8.8	-8.8	0.0	2.0	0.78	0.40	0.78	CS3
S1-BH103	15.90	3.20	0.20	0.20	4.70	4.70	0.20	0.20	0.0	1.0	0.00	0.01	0.01	CS1
S1-BH105	5.00	5.00	35.10	34.10	3.90	3.90	8.30	8.30	0.0	88.0	2.83	0.32	2.83	CS3
S1-BH108	20.30	20.30	0.10	0.10	2.80	2.80	-6.2	-6.2	0.0	10.0	0.01	0.17	0.17	CS2
S1-BH112(Shallow)	9.00	9.00	0.20	0.20	2.00	2.00	0.2	0.2	0.0	1.0	0.00	0.00	0.00	CS1
S1-BH112(Deep)	8.50	8.50	0.20	0.20	2.30	2.30	-3.0	-3.0	0.0	2.0	0.01	0.07	0.07	CS1
S1-BH113	1.80	4.50	4.50	0.20	5.40	5.40	0.3	0.3	0.0	6.0	0.00	0.02	0.02	CS2
S1-BH121	19.50	19.50	0.40	0.30	2.00	2.00	-12.0	-12.0	0.0	0.0	0.04	0.24	0.24	CS2
S1-BH122	18.90	18.90	0.30	0.30	2.20	2.20	11.00	11.00	1.0	2.0	0.03	0.24	0.24	CS2
SOP003.16	15.80	15.80	0.30	0.20	3.70	3.60	7.0	7.0	0.0	2.0	0.01	0.25	0.25	CS2

Appendix I.5
Table 2 Ground Gas Monitoring Summary

Project: GCRE
Project Number: 5209796
Client: GCRE

CS1 CS2 CS3 CS4 CS5

= Flow caused by flooding of plain pipe work section and discounted from assessment
=data from outside of Zone 1A area

Bore hole	Date	Oxygen (% v/v)		Methane (% v/v)		Carbon Dioxide (% v/v)		Flow (l/hr)		H_2S ppm	CO ppm	Pressure (during round)	DTW (m bgl)	DTB (m bgl)	Deposits Screened	Top of response zone (m bgl)	Response zone flooded?	Hazardous Gas Values (calculated using steady conc. and steady state flow)				Location	Comments (i.e. surface condition, well condition, free product, sheen, odour, weather, other)
		Min	Steady	Max	Steady	Max	Steady	Max	Steady									Methane (GSV)	Methane CS	Carbon Dioxide	Carbon Dioxide CS		
BH29	20/01/2022												0.31	15		12	Yes	0.00	CS1	0.00	CS1	1A / N washery	Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	31/01/2022	18.2	18.2	0	0	2.9	2.9	0	0	0	0	1018	0.83	15		12	Yes	0.00	CS1	0.00	CS1		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	22/02/2022	17.8	17.8	0	0	2.4	2.4	0	0	0	0	1020	0.78	15		12	Yes	0.00	CS1	0.00	CS1		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	09/03/2022	18	18	0	0	2	2	0	0	0	0	1015	0.7	15	Mdst	12	Yes	0.00	CS1	0.00	CS1		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	23/03/2022	20.1	20.1	0	0	1	1	0	0	0	0	1001	0.72	15		12	Yes	0.00	CS1	0.00	CS1		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	06/04/2022	18.7	18.7	0.7	0.7	1.8	1.8	0	0	0	0	967	0.9	15		12	Yes	0.00	CS1	0.00	CS1		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	25/04/2022	19.2	19.2	0.3	0.3	1.5	1.5	0	0	0	0	989	1.04	15		12	Yes	0.00	CS1	0.00	CS1		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
BH30	20/01/2022												3.04	4		3	No	0.00	CS1	0.00	CS1		
	31/01/2022	18.4	18.4	0	0	2	2	0	0	0	0	1018	3.2	4		3	No	0.00	CS1	0.00	CS1		
	22/02/2022	18	18	0	0	2.4	2.4	0	0	0	0	1020	3.01	4		3	No	0.00	CS1	0.00	CS1		
	09/03/2022	18.2	18.2	0	0	2	2	0	0	0	0	1015	2.95	4	MG (Backfill)	3	Yes	0.00	CS1	0.00	CS1	1A / Central washery	Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	23/03/2022	18.5	18.5	0.2	0.2	1.8	1.8	0.2	0.2	0	0	1001	2.8	4		3	Yes	0.00	CS1	0.00	CS1		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	06/04/2022	**3.2**	**3.2**	0.8	0.8	5.2	5.2	0.4	0.4	0	0	967	3.1	4		3	No	0.00	CS1	0.02	CS2*		
	25/04/2022	20.2	20.2	0.4	0.4	0	0	0.1	0.1	0	0	989	3.6	4		3	No	0.00	CS1	0.00	CS1		
BH31 (Shallow)	20/01/2022												4.16	5		1	No	0.00	CS1	0.00	CS1	2A / Central washery	
	31/01/2022	20	20	0	0	0.2	0.2	0	0	0	0	1018	4.15	5		1	No	0.00	CS1	0.00	CS1		
	22/02/2022	19.4	19.4	0	0	1.2	1.2	0	0	0	0	1020	4.1	5		1	No	0.00	CS1	0.00	CS1		
	09/03/2022	17.8	17.8	0	0	0.5	0.5	0	0	0	0	1015	4.1	5	MG (Backfill)	1	No	0.00	CS1	0.00	CS1		
	23/03/2022	17	17	0	0	3.5	3.5	0	0	0	0	1001	4.1	5		1	No	0.00	CS1	0.00	CS1		
	06/04/2022	16.1	16.1	0	0	4.6	4.6	0.05	0.05	0	0	967	Dry	5		1	No	~~0.00~~	~~CS1~~	~~0.00~~	~~CS1~~		
	25/04/2022	16.3	16.3	0.1	0.1	4.8	4.8	-0.08	-0.08	0	0	989	4.6	5		1	No	~~0.00~~	~~CS1~~	~~0.00~~	~~CS1~~		
BH31 (Deep)	20/01/2022												4.59	21		16	Yes	0.00	CS1	0.00	CS1	2A / Central washery	Flooded and flow considered unreliable
	31/01/2022	19.9	19.9	0	0	1.2	1.2	0	0	0	0	1018	4.5	21		16	Yes	0.00	CS1	0.00	CS1		Flooded and flow considered unreliable
	22/02/2022	18.6	18.6	0	0	2.1	2.1	0	0	0	0	1020	4.3	21		16	Yes	0.00	CS1	0.00	CS1		Flooded and flow considered unreliable
	09/03/2022	20.1	20.1	0	0	1	1	0	0	0	0	1015	4.28	21	Mdst	16	Yes	0.00	CS1	0.00	CS1		Flooded and flow considered unreliable
	23/03/2022	21	21	0.1	0.1	0	0	0	0	0	0	1001	4.2	21		16	Yes	0.00	CS1	0.00	CS1		Flooded and flow considered unreliable
	06/04/2022	21.3	21.3	0.1	0.1	0	0	0.05	0.05	0	0	967	4.9	21		16	Yes	~~0.00~~	~~CS1~~	~~0.00~~	~~CS1~~		Flooded and flow considered unreliable
	25/04/2022	20.4	20.4	0.1	0.1	0.1	0.1	-0.08	-0.08	0	0	989	4.9	21		16	Yes	~~0.00~~	~~CS1~~	~~0.00~~	~~CS1~~		Flooded and flow considered unreliable
BH33 (1A)	20/01/2022												0.1	20		15	Yes	0.00	CS1	0.00	CS1	1A / NW Washery	Flooded and flow considered unreliable
	31/01/2022	18.9	18.9	0	0	1.8	1.8	0	0	0	0	1018	0.41	20		15	Yes	0.00	CS1	0.00	CS1		Flooded and flow considered unreliable
	22/02/2022	17.3	17.3	0	0	2.8	2.8	0	0	0	0	1020	0.25	20		15	Yes	0.00	CS1	0.00	CS1		Flooded and flow considered unreliable
	09/03/2022	17.9	17.9	0	0	1.8	1.8	0	0	0	0	1015	0.35	20	Mdst	15	Yes	0.00	CS1	0.00	CS1		Flooded and flow considered unreliable
	23/03/2022	18.5	18.5	0.1	0.1	1.5	1.5	0	0	0	0	1001	0.3	20		15	Yes	0.00	CS1	0.00	CS1		Flooded and flow considered unreliable
	06/04/2022	20.7	20.7	0.1	0.1	0.5	0.5	0.3	0.3	0	0	967	0.7	20		15	Yes	~~0.00~~	~~CS1~~	~~0.00~~	~~CS1~~		Flooded and flow considered unreliable
	25/04/2022	20.9	20.9	0.1	0.1	0	0	0.1	0.1	0	0	989	1.1	20		15	Yes	~~0.00~~	~~CS1~~	~~0.00~~	~~CS1~~		Flooded and flow considered unreliable
BH34 (Shallow)	20/01/2022												2.72	3.3		1	No	0.00	CS1	0.00	CS1	2A / W Washery	
	31/01/2022	17.9	17.9	0	0	1.9	1.9	0	0	0	0	1018	2.85	3.3		1	No	0.00	CS1	0.00	CS1		
	22/02/2022	18.1	18.1	0	0	2.1	2.1	0	0	0	0	1020	2.68	3.3		1	No	0.00	CS1	0.00	CS1		
	09/03/2022	18.9	18.9	0	0	1.5	1.5	0	0	0	0	1015	2.6	3.3	MG (Backfill) with peat	1	No	0.00	CS1	0.00	CS1		
	23/03/2022	18.9	18.9	0	0	1.2	1.2	0	0	0	0	1001	2.68	3.3		1	No	0.00	CS1	0.00	CS1		
	06/04/2022	18.9	18.9	0.6	0.6	2.4	2.4	0	0	0	0	967	2.9	3.3		1	No	0.00	CS1	0.00	CS1		
	25/04/2022	10.4	10.4	0.3	0.3	**5.4**	**5.4**	0.1	0.1	0	0	989	2.73	3.3		1	No	0.00	CS1	0.01	CS1		
BH34 (Deep)	20/01/2022												4.82	13		11	Yes	0.00	CS1	0.00	CS1	2A / W Washery	Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	31/01/2022	16.9	16.9	0	0	3.5	3.5	0	0	0	0	1018	5.09	13		11	Yes	0.00	CS1	0.00	CS1		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	22/02/2022	15.3	15.3	0	0	2.8	2.8	0	0	0	0	1020	4.5	13		11	Yes	0.00	CS1	0.00	CS1		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	09/03/2022	15.9	15.9	0	0	3	3	0	0	0	0	1015	4.6	13	Sltst	11	Yes	0.00	CS1	0.00	CS1		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	23/03/2022	16.5	16.5	0	0	2.1	2.1	0	0	0	0	1001	4.55	13		11	Yes	0.00	CS1	0.00	CS1		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	06/04/2022	4.9	4.9	**60.3**	**60.3**	2.1	2.1	0	0	0	0	967	5.1	13		11	Yes	0.00	CS2*	0.00	CS1		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	25/04/2022	5.2	5.2	42.8	42.8	2.8	2.8	0	0	0	0	989	5.83	13		11	Yes	0.00	CS2*	0.00	CS1		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
S1-BH101	09/01/2023	19.1	19.1	0.1	0.1	1.4	1.4	-7.3	-7.3	**1.5**	23	979	10.44	13.74		11	Yes	~~-0.01~~	~~CS1~~	~~-0.10~~	~~CS2~~	1A	Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	31/01/2023	18.9	18.9	0	0.1	1.5	1.5	6.5	6.5	0	2	998	10.66	13.61	Made Ground	11	Yes	~~0.01~~	~~CS1~~	~~0.10~~	~~CS2~~		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	17/02/2023	18.8	18.9	0.1	0.1	1	1.5	3	3	0	3	1000	10.66	13.47		11	Yes	~~0.00~~	~~CS1~~	~~0.03~~	~~CS1~~		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
S1-BH102	09/01/2023	14.4	14.4	8.5	8.2	4.5	4.5	-8.8	-8.8	0	2	978	0.5	8.77		6	Yes	~~-0.72~~	~~CS2*~~	~~-0.40~~	~~CS2~~	1A	Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	31/01/2023	18.9	18.9	2.7	2.7	3.6	3.6	-2.8	-2.8	0	1	1000	0.64	8.85	Coal Formation	6	Yes	~~-0.08~~	~~CS2*~~	~~-0.10~~	~~CS2~~		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	13/02/2023	16.6	16.6	8.9	8.9	2	2	6.2	6.2	0	1	1006	0.68	8.75		6	Yes	~~0.55~~	~~CS2*~~	~~0.12~~	~~CS2~~		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
S1-BH103	09/01/2023	15.9	15.9	0	0	4.7	4.7	0.2	0.2	0	0	978	2.85	5.75		2	No	0.00	CS1	0.01	CS1	1A	
	31/01/2023	18.9	18.9	0	0	4	4	0	0	0	0	999	3.3	5.52	Made Ground	2	No	0.00	CS1	0.00	CS1		
	14/02/2023	17.9	17.9	0.2	0.2	4.4	4.4	0.1	0.1	0	0	1003	3.4	5.52		2	No	0.00	CS1	0.00	CS1		
S1-BH105	09/01/2023	5	5	25.9	25.8	3.9	3.9	-8.3	-8.3	0	1	977	6.3	15.5		11	Yes	~~-2.14~~	~~CS3~~	~~-0.32~~	~~CS2~~	1A	Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	31/01/2023	9.3	9.3	21	21	3.6	3.6	5.5	5.5	0	**88**	999	6.42	15.36	Made Ground	11	Yes	~~1.16~~	~~CS3~~	~~0.20~~	~~CS2~~		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	14/02/2023	6.5	6.5	**35.1**	**34.1**	3.8	3.8	3.9	3.9	0	10	1003	6.46	15.36		11	Yes	~~1.33~~	~~CS3~~	~~0.15~~	~~CS2~~		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
S1-BH108	09/01/2023	20.6	20.7	0	0.1	0.9	0.6	-3.4	-3.4	0	0	976	1.19	15.6	Coal Formation	13	Yes	~~0.00~~	~~CS1~~	~~-0.02~~	~~CS1~~	1A	Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	31/01/2023	20.3	20.3	0.1	0.1	2.8	2.8	-6.2	-6.2	0	10	999	2.13	15.46		13	Yes	~~-0.01~~	~~CS1~~	~~-0.17~~	~~CS2~~		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
S1-BH112 (s)	09/01/2023	9	9	0.1	0.1	1.4	1.4	0.2	0.2	0	0	978	2.41	3.37	Made Ground	1	No	0.00	CS1	0.00	CS1	1A	
	14/02/2023	14.8	14.8	0.2	0.2	2	2	0.2	0.2	0	1	1001	3.2	3.41		1	No	0.00	CS1	0.00	CS1		
S1-BH112 (d)	09/01/2023	8.5	8.5	0.2	0.2	2.3	2.3	-3	-3	0	1	978	8.87	15.12	Coal Formation	8	No	-0.01	CS1	-0.07	CS1	1A	
	14/02/2023	17.1	17.2	0.2	0.1	0.9	0.9	0.3	0.3	0	2	1001	10.13	15.17		8	No	0.00	CS1	0.00	CS1		
S1-BH113	09/01/2023	1.8	4.5	4.5	0.2	4.5	4.5	0.3	0.3	0	6	978	3.69	5.53		3	No	0.00	CS1	0.01	CS1	1A	
	31/01/2023	7	7	0.1	0	4	4	0.2	0.2	0	0	999	4.66	5.54	Made Ground	3	No	0.00	CS1	0.01	CS1		
	14/02/2023	9.5	9.6	0.4	0.2	**5.4**	**5.4**	0.2	0.2	0	1	1003	5.49	5.49		3	No	0.00	CS1	0.01	CS2*		
S1-BH121	09/01/2023	20.1	20.1	0.3	0.3	2	2	-12	-12	0	0	977	0.45	3.31		2	Yes	~~-0.04~~	~~CS1~~	~~-0.24~~	~~CS2~~	1A	Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	31/01/2023	21.2	21.2	0.1	0.1	1.2	0.5	3.9	3.9	0	0	1000	0.61	3.22	Made Ground	2	Yes	~~0.00~~	~~CS1~~	~~0.02~~	~~CS1~~		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	13/02/2023	19.5	19.5	0.4	0.2	1.9	1.9	5.6	5.6	0	0	1006	0.67	3.28		2	Yes	~~0.01~~	~~CS1~~	~~0.11~~	~~CS2~~		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
S1-BH122	09/01/2023	19.4	19.4	0.3	0.3	2.2	2.2	-2.1	-2.1	0	0	978	0.15	1.77		1	Yes	~~-0.01~~	~~CS1~~	~~-0.05~~	~~CS1~~	1A	Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	31/01/2023	19.9	19.9	0	0	1.7	1.7	11	11	0	0	1000	0.25	1.76	Made Ground	1	Yes	~~0.00~~	~~CS1~~	~~0.19~~	~~CS2~~		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
	13/02/2023	18.9	18.9	0.2	0.2	1.8	1.8	7.5	7.5	1	2	1005	0.34	1.76		1	Yes	~~0.02~~	~~CS1~~	~~0.14~~	~~CS2~~		Flooded and flow considered unreliable, gas concentration potentially indicated elevated gases dissolved in groundwater
SOP003.16	09/01/2023	15.8	15.8	0.3	0.2	3.7	3.6	**-6.8**	**-6.8**	0	2	979	10.2	13.75	SW L Coal Formation	10	No	-0.01	CS1	-0.24	CS2	1A	
	31/01/2023	17.8	17.8	0.2	0.2	2.2	2.2	7	7	0	2	1000	11.28	13.65		10	No	0.01	CS1	0.15	CS2		
	14/02/2023	17.4	17.4	0.3	0.2	1.7	1.7	3.4	3.4	0	2	1002	11.38	13.66		10	No	0.01	CS1	0.06	CS1		
	Max	21.3	21.3	60.3	60.3	5.4	5.4	25.2	25.2	1.5	88	1020											
	Min	3.2	3.2	0	0	0	0	-12	-12	0	0	967											
	Average	17.41	17.41	2.32	2.76	2.30	2.29	0.51	0.51	0.03	2.05	998.21											

Appendix J. Waste Classification Report

ATKINS

HazWasteOnline™

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

a) understand the origin of the waste
b) select the correct List of Waste code(s)
c) confirm that the list of determinands, results and sampling plan are fit for purpose
d) select and justify the chosen metal species (Appendix B)
e) correctly apply moisture correction and other available corrections
f) add the meta data for their user-defined substances (Appendix A)
g) check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.

06UM2-AA4EB-9WXZN

Job name

GCRE Zone 1A (2)

Description/Comments

76 samples of soil taken from a brownfield site comprising a former colliery. The samples tested were obtained during a two phases of ground investigation instructed by Arup 2021-2022 and Atkins 2022-2023. 17 of the 76 soil samples tested (22%) have been noted as deviating by the laboratory due to no sampling date being provided and holding times being exceeded. This should be considered a preliminary waste assessment, further testing and assessment may be required prior to disposal.

Project

Global Centre of Rail Excellence

Site

Zone 1A

Classified by

Name:
Robert Hughes
Date:
20 Apr 2023 13:21 GMT
Telephone:
01214835879

Company:
Atkins Limited
2 Chamberlain Square
Birmingham
B3 3AX

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification: CERTIFIED

Course	Date
Hazardous Waste Classification	19 Jan 2023

Next 3 year Refresher due by Jan 2026

Purpose of classification

2 - Material Characterisation

Address of the waste

The Onllwyn Washery, Abercraf **Post Code** SA10 9HL

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Redevelopment of a former colliery.

Description of the specific process, sub-process and/or activity that created the waste

Excavations within the northern part of the Washery, comprising the development of an earthwork to support the installation of multiple sidings for rolling stock storage and decommissioning, as well as a ‘shunter’s cabin’.

Description of the waste

Predominantly colliery spoil and made ground comprising containing coal and slag.

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	WAC Results			Page
					Inert	SNRHW	Hazardous	
1	S1-BH121	0.50-0.70	Non Hazardous		-	-	-	4
2	S1-TP115	0.20-0.30	Non Hazardous		N/A	Fail	Fail	7
3	S1-TP115 (2)	0.50-0.60	Non Hazardous		-	-	-	11
4	S1-BH121 (1)	1.20-1.40	Non Hazardous		-	-	-	14
5	S1-BH121 (2)	1.80-2.00	Non Hazardous		-	-	-	16
6	S1-BH122	0.20-0.30	Non Hazardous		-	-	-	19
7	S1-TP113	0.20-0.30	Non Hazardous		-	-	-	21
8	S1-TP113 (1)	0.50-0.60	Non Hazardous		-	-	-	23
9	S1-TP113 (2)	0.90-1.00	Non Hazardous		-	-	-	25
10	S1-BH122 (1)	2.00-2.20	Non Hazardous		-	-	-	27
11	S1-BH102-1-11/11/2022-0.20	0.20-0.30	Non Hazardous		-	-	-	29
12	S1-BH102-2-11/11/2022-0.50	0.50-0.60	Non Hazardous		-	-	-	31
13	S1-BH102-101-15/11/2022-3.00	3.00-3.20	Non Hazardous		-	-	-	33
14	S1-TP112-3-15/11/2022-0.20	0.20-0.30	Non Hazardous		-	-	-	36
15	S1-TP112-8-15/11/2022-0.90	0.90-10.00	Non Hazardous		-	-	-	39
16	S1-TP112-11-15/11/2022-1.50	1.50-1.60	Non Hazardous		-	-	-	41
17	S1-TP111-5-15/11/2022-0.40	0.40-0.50	Non Hazardous		-	-	-	43
18	S1-TP111-6-15/11/2022-0.90	0.90-1.00	Non Hazardous		-	-	-	45
19	S1-TP111-1-15/11/2022-0.20	0.20-0.30	Non Hazardous		-	-	-	47
20	S1-TP114	0.1-0.15	Non Hazardous		-	-	-	49
21	S1-TP114 (1)	0.3-0.35	Non Hazardous		N/A	Fail	Fail	51
22	S1-TP114 (2)	0.9-1.0	Non Hazardous		-	-	-	54
23	S1-BH110	0.3-0.4	Non Hazardous		-	-	-	56
24	S1-BH110 (1)	0.6-0.7	Non Hazardous		-	-	-	58
25	S1-BH108	0.30-0.40	Non Hazardous		N/A	Fail	Fail	60
26	S1-BH110-102-18/11/2022-1.80	1.80-1.90	Non Hazardous		-	-	-	64
27	S1-BH113	0.50-0.60	Non Hazardous		-	-	-	66
28	S1-BH103-101-22/11/2022-0.30	0.30-0.40	Non Hazardous		N/A	Fail	Fail	68
29	S1-BH103-103-22/11/2022-1.00	1.00-1.10	Non Hazardous		-	-	-	71
30	S1-BH103-107-24/11/2022-2.20	2.20-2.40	Hazardous	HP 7, HP 11	-	-	-	73
31	S1-BH103-116-24/11/2022-7.00	7.00-7.20	Non Hazardous		-	-	-	76
32	S1-BH114-1-25/11/2022-0.20	0.20-0.30	Non Hazardous		-	-	-	78
33	S1-BH114-101-29/11/2022-0.70	0.70-1.00	Non Hazardous		-	-	-	80
34	S1-BH114-103-29/11/2022-1.70	1.70-1.90	Non Hazardous		N/A	Pass	Pass	82
35	S1-BH105-1-30/11/2022-0.20	0.20-0.30	Non Hazardous		-	-	-	85
36	S1-BH105-101-01/12/2022-1.70	1.70-1.90	Non Hazardous		-	-	-	88
37	S1-BH105-102-01/12/2022-2.70	2.70-2.90	Non Hazardous		-	-	-	90
38	S1-BH105-104-01/12/2022-4.70	4.70-4.90	Non Hazardous		-	-	-	93
39	S1-BH105-106-01/12/2022-6.70	6.70-6.90	Non Hazardous		-	-	-	95
40	S1-BH107	0.30-0.40	Non Hazardous		N/A	Fail	Fail	98
41	S1-BH105-116-05/12/2022-9.6	9.6-9.7	Non Hazardous		-	-	-	101
42	S1-BH107-101-06/12/2022-1.0	1.0-1.1	Non Hazardous		-	-	-	103
43	S1-BH107-105-06/12/2022-5.0	5.0-5.1	Non Hazardous		-	-	-	105
44	S1-BH109-105-07/12/2022-3.70	3.70-3.90	Non Hazardous		N/A	Fail	Fail	107
45	S1-BH109-1-06/12/2022-0.20	0.20-0.30	Non Hazardous		-	-	-	110
46	S1-BH109-4-06/12/2022-0.70	0.70-0.80	Non Hazardous		-	-	-	112
47	S1-BH109-111-08/12/2022-6.70	6.70-6.90	Non Hazardous		-	-	-	114
48	S1-BH101-2-09/12/2022-0.30	0.30-0.40	Non Hazardous		-	-	-	116
49	S1-BH101-5-09/12/2022-1.00	1.00-1.10	Non Hazardous		-	-	-	118
50	S1-BH109-112-12/12/2022-8.40	8.40-8.60	Non Hazardous		-	-	-	120
51	S1-BH116-2-12/12/2022-0.20	0.20-0.30	Non Hazardous		-	-	-	122
52	S1-BH116-5-12/12/2022-0.90	0.90-1.00	Non Hazardous		-	-	-	124
53	S1-BH101-102-13/12/2022-2.70	2.70-3.00	Non Hazardous		-	-	-	126
54	S1-BH101-105-13/12/2022-4.50	4.50-4.70	Non Hazardous		-	-	-	128
55	S1-BH101-109-13/12/2022-7.50	7.50-7.70	Non Hazardous		-	-	-	130
56	S1-BH101-113-13/12/2022-9.50	9.50-9.70	Non Hazardous		-	-	-	132
57	S1-BH116-104-13/12/2022-2.70	2.70-2.80	Non Hazardous		-	-	-	134
58	S1-BH116-108-13/12/2022-4.50	4.50-4.65	Non Hazardous		-	-	-	136
59	S1-BH116-110-13/12/2022-5.10	5.10-5.20	Non Hazardous		-	-	-	138
60	S1-BH112	0.50-0.60	Non Hazardous		N/A	Fail	Fail	140
61	S1-BH112-102-15/12/2022-1.50	1.50-1.60	Non Hazardous		-	-	-	143
62	S1-BH112-106-15/12/2022-3.70	3.70-3.80	Non Hazardous		N/A	Pass	Pass	146

#	Sample name	Depth [m]	Classification Result	Hazard properties	WAC Results			Page
					Inert	SNRHW	Hazardous	
63	S1-BH106	0.2-0.3	Non Hazardous		-	-	-	149
64	S1-BH106 (1)	0.9-1.0	Non Hazardous		-	-	-	151
65	S1-BH106 (4)	2.5-2.7	Hazardous	HP 7, HP 14	-	-	-	153
66	S1-BH106 (2)	5.5-5.7	Non Hazardous		-	-	-	156
67	S1-BH106 (3)	8.5-8.7	Non Hazardous		-	-	-	158
68	BH29	0.2m	Non Hazardous		-	-	-	160
69	BH29[2]	2m	Non Hazardous		-	-	-	162
70	BH30	0.2m	Non Hazardous		-	-	-	165
71	BH30[2]	4m	Non Hazardous		-	-	-	168
72	BH33	0.2m	Non Hazardous		-	-	-	170
73	TP1	0.2m	Hazardous	HP 7, HP 11	-	-	-	172
74	TP1[2]	1m	Non Hazardous		-	-	-	175
75	TP2	0.3m	Non Hazardous		-	-	-	177
76	TP2[2]	1m	Hazardous	HP 7, HP 11	-	-	-	180

Related documents

#	Name	Description
1	HWOL_23-00270-20230217 102929.hwol	Eurofins Chemtest .hwol file used to populate the Job
2	Atkins 2022 RH	waste stream template used to create this Job

WAC results

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate the samples in this Job: "UK"
The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

Report

Created by: Robert Hughes

Created date: 20 Apr 2023 13:21 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	183
Appendix B: Rationale for selection of metal species	184
Appendix C: Version	185

Classification of sample: S1-BH121

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH121
Sample Depth:
0.50-0.70 m
Moisture content:
19%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 19% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.8	pH		8.8	pH	8.8 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11	mg/kg	1.32	11.764	mg/kg	0.00118 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.29	mg/kg	1.142	0.268	mg/kg	0.0000268 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		10	mg/kg	1.462	11.839	mg/kg	0.00118 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		48	mg/kg	1.126	43.775	mg/kg	0.00438 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	30	mg/kg	1.56	37.904	mg/kg	0.00243 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.07	mg/kg	1.353	0.0767	mg/kg	0.00000767 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		31	mg/kg	2.976	74.734	mg/kg	0.00747 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.1	mg/kg	2.554	2.275	mg/kg	0.000228 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		12	mg/kg	1.785	17.352	mg/kg	0.00174 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		73	mg/kg	1.245	73.6	mg/kg	0.00736 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
16		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
17		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
18		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<**LOD**
20		naphthalene	601-052-00-2	202-049-5	91-20-3		0.74	mg/kg		0.599	mg/kg	0.0000599 %	✓	
21		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
22		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
23		fluorene		201-695-5	86-73-7		0.29	mg/kg		0.235	mg/kg	0.0000235 %	✓	
24		phenanthrene		201-581-5	85-01-8		2.5	mg/kg		2.025	mg/kg	0.000202 %	✓	
25		anthracene		204-371-1	120-12-7		0.28	mg/kg		0.227	mg/kg	0.0000227 %	✓	
26		fluoranthene		205-912-4	206-44-0		1.7	mg/kg		1.377	mg/kg	0.000138 %	✓	
27		pyrene		204-927-3	129-00-0		1.2	mg/kg		0.972	mg/kg	0.0000972 %	✓	
28		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.2	mg/kg		0.972	mg/kg	0.0000972 %	✓	
29		chrysene	601-048-00-0	205-923-4	218-01-9		1.4	mg/kg		1.134	mg/kg	0.000113 %	✓	
30		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		1.3	mg/kg		1.053	mg/kg	0.000105 %	✓	
31		indeno[123-cd]pyrene		205-893-2	193-39-5		1.1	mg/kg		0.891	mg/kg	0.0000891 %	✓	
32		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.6	mg/kg		0.486	mg/kg	0.0000486 %	✓	
33		benzo[ghi]perylene		205-883-8	191-24-2		1.1	mg/kg		0.891	mg/kg	0.0000891 %	✓	
34		asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
35		monohydric phenols			P1186		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
36		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		2.47	mg/kg		2.001	mg/kg	0.0002 %	✓	
											Total:	0.0298 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-TP115

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-TP115
Sample Depth:
0.20-0.30 m
Moisture content:
5.6%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 5.6% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.3	pH		8.3	pH	8.3 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.6	mg/kg	1.32	9.473	mg/kg	0.000947 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		**<LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.17	mg/kg	1.142	0.183	mg/kg	0.0000183 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		4.9	mg/kg	1.462	6.761	mg/kg	0.000676 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		**<LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		20	mg/kg	1.126	21.257	mg/kg	0.00213 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	24	mg/kg	1.56	35.339	mg/kg	0.00227 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.06	mg/kg	1.353	0.0767	mg/kg	0.00000767 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		14	mg/kg	2.976	39.334	mg/kg	0.00393 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.69	mg/kg	2.554	1.663	mg/kg	0.000166 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		6.9	mg/kg	1.785	11.628	mg/kg	0.00116 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		53	mg/kg	1.245	62.276	mg/kg	0.00623 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		330	mg/kg		311.52	mg/kg	0.0312 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				0.68	mg/kg		0.642	mg/kg	0.0000642 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				0.16	mg/kg		0.151	mg/kg	0.0000151 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				0.79	mg/kg		0.746	mg/kg	0.0000746 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.17	mg/kg		0.16	mg/kg	0.000016 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				0.67	mg/kg		0.632	mg/kg	0.0000632 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.56	mg/kg		0.529	mg/kg	0.0000529 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.57	mg/kg		0.538	mg/kg	0.0000538 %	✓	
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.49	mg/kg		0.463	mg/kg	0.0000463 %	✓	
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				0.67	mg/kg		0.632	mg/kg	0.0000632 %	✓	
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				0.76	mg/kg		0.717	mg/kg	0.0000717 %	✓	
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				0.43	mg/kg		0.406	mg/kg	0.0000406 %	✓	
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				0.72	mg/kg		0.68	mg/kg	0.000068 %	✓	
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				1.6	mg/kg		1.51	mg/kg	0.000151 %	✓	
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0499 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The risk phrase HP 3 (i) Flammable is unlikely to apply to this waste stream. This is due to the solid soil and natural moisture content of the sample. The concentration required to provide a flammability risk is likely to be >10,000mg. This risk of flammability from solid state soils <10,000mg/kg TPH is negligible and has been deemed non-hazardous if below this concentration. [Source: AGS Waste Classification for Soils 2019]

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0312%)

WAC results for sample: S1-TP115

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"
The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample FAILS the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria.

The sample FAILS the Hazardous (Hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	28	3	5	6
2	LOI (loss on ignition)	%	8.6	-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.01	6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.1	1	-	-
5	Mineral oil (C10 to C40)	mg/kg	3500	500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	29	100	-	-
7	pH	pH	7.8	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg	0.009	-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg	0.0057	0.5	2	25
10	barium	mg/kg	0.29	20	100	300
11	cadmium	mg/kg	<0.0001	0.04	1	5
12	chromium	mg/kg	<0.0005	0.5	10	70
13	copper	mg/kg	0.0009	2	50	100
14	mercury	mg/kg	<5.0e-05	0.01	0.2	2
15	molybdenum	mg/kg	0.016	0.5	10	30
16	nickel	mg/kg	0.002	0.4	10	40
17	lead	mg/kg	<0.0005	0.5	10	50
18	antimony	mg/kg	0.0007	0.06	0.7	5
19	selenium	mg/kg	0.012	0.1	0.5	7
20	zinc	mg/kg	0.022	4	50	200
21	chloride	mg/kg	<10	800	15,000	25,000
22	fluoride	mg/kg	1.3	10	150	500
23	sulphate	mg/kg	190	1,000	20,000	50,000
24	phenol index	mg/kg	<0.5	1	-	-
25	DOC (dissolved organic carbon)	mg/kg	56	500	800	1,000
26	TDS (total dissolved solids)	mg/kg	900	4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Inert WAC criteria fail
	SNRHW WAC criteria fail
	Hazardous WAC criteria fail

Classification of sample: S1-TP115 (2)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-TP115 (2)
Sample Depth:
0.50-0.60 m
Moisture content:
9.4%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 9.4% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.1	pH		8.1	pH	8.1 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.9	mg/kg	1.32	8.254	mg/kg	0.000825 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		2.5	mg/kg	1.462	3.31	mg/kg	0.000331 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		19	mg/kg	1.126	19.381	mg/kg	0.00194 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	12	mg/kg	1.56	16.958	mg/kg	0.00109 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.05	mg/kg	1.353	0.0613	mg/kg	0.00000613 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		7.1	mg/kg	2.976	19.145	mg/kg	0.00191 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.54	mg/kg	2.554	1.249	mg/kg	0.000125 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		2.7	mg/kg	1.785	4.367	mg/kg	0.000437 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		27	mg/kg	1.245	30.448	mg/kg	0.00304 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				1.7	mg/kg		1.54	mg/kg	0.000154 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				0.25	mg/kg		0.226	mg/kg	0.0000226 %	✓	
			201-469-6	83-32-9									
23		fluorene				0.3	mg/kg		0.272	mg/kg	0.0000272 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				2.5	mg/kg		2.265	mg/kg	0.000227 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.34	mg/kg		0.308	mg/kg	0.0000308 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				2.5	mg/kg		2.265	mg/kg	0.000227 %	✓	
			205-912-4	206-44-0									
27		pyrene				1.7	mg/kg		1.54	mg/kg	0.000154 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.9	mg/kg		0.815	mg/kg	0.0000815 %	✓	
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				1.3	mg/kg		1.178	mg/kg	0.000118 %	✓	
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				0.94	mg/kg		0.852	mg/kg	0.0000852 %	✓	
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				0.56	mg/kg		0.507	mg/kg	0.0000507 %	✓	
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				0.2	mg/kg		0.181	mg/kg	0.0000181 %	✓	
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				0.49	mg/kg		0.444	mg/kg	0.0000444 %	✓	
			205-883-8	191-24-2									
34		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
35		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
36		benzo[bk]fluoranthene				1.79	mg/kg		1.622	mg/kg	0.000162 %	✓	
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0136 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH121 (1)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH121 (1)
Sample Depth:
1.20-1.40 m
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		6.8	pH		6.8	pH	6.8 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10	mg/kg	1.32	11.487	mg/kg	0.00115 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		3.9	mg/kg	1.462	4.959	mg/kg	0.000496 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		73	mg/kg	1.126	71.505	mg/kg	0.00715 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	46	mg/kg	1.56	62.424	mg/kg	0.004 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.18	mg/kg	1.353	0.212	mg/kg	0.0000212 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21	mg/kg	2.976	54.376	mg/kg	0.00544 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2.4	mg/kg	2.554	5.332	mg/kg	0.000533 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		5.8	mg/kg	1.785	9.008	mg/kg	0.000901 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		52	mg/kg	1.245	56.311	mg/kg	0.00563 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				0.39	mg/kg		0.339	mg/kg	0.0000339 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.027 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH121 (2)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH121 (2)
Sample Depth:
1.80-2.00 m
Moisture content:
70%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 70% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		6.7	pH		6.7	pH	6.7 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14	mg/kg	1.32	5.545	mg/kg	0.000555 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.73	mg/kg	5.719	1.253	mg/kg	0.000125 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.2	mg/kg	1.142	0.411	mg/kg	0.0000411 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		2.7	mg/kg	1.462	1.184	mg/kg	0.000118 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		29	mg/kg	1.126	9.795	mg/kg	0.00098 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	58	mg/kg	1.56	27.141	mg/kg	0.00174 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.05	mg/kg	1.353	0.0203	mg/kg	0.00000203 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		9.2	mg/kg	2.976	8.214	mg/kg	0.000821 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.3	mg/kg	2.554	0.996	mg/kg	0.0000996 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		2.7	mg/kg	1.785	1.446	mg/kg	0.000145 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		110	mg/kg	1.245	41.076	mg/kg	0.00411 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
16		toluene				0.0071	mg/kg		0.0021	mg/kg	0.000000213 %	✓	
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<**LOD**
		006-007-00-5											
20		naphthalene				0.5	mg/kg		0.15	mg/kg	0.000015 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				0.51	mg/kg		0.153	mg/kg	0.0000153 %	✓	
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
26		fluoranthene				0.27	mg/kg		0.081	mg/kg	0.0000081 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.2	mg/kg		0.06	mg/kg	0.000006 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0101 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The risk phrase HP 3 (i) Flammable is unlikely to apply to this waste stream. This is due to the solid soil and natural moisture content of the sample. The concentration required to provide a flammability risk is likely to be >10,000mg. This risk of flammability from solid state soils <10,000mg/kg TPH is negligible and has been deemed non-hazardous if below this concentration. [Source: AGS Waste Classification for Soils 2019]

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinand:

toluene: (conc.: 2.13e-07%)

Classification of sample: S1-BH122

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH122
Sample Depth:
0.20-0.30 m
Moisture content:
4.6%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 4.6% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.5	pH		8.5	pH	8.5 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.7	mg/kg	1.32	8.439	mg/kg	0.000844 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		4.2	mg/kg	1.462	5.856	mg/kg	0.000586 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		29	mg/kg	1.126	31.149	mg/kg	0.00311 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	20	mg/kg	1.56	29.761	mg/kg	0.00191 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.05	mg/kg	1.353	<0.0677	mg/kg	<0.00000677 %		<LOD
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		36	mg/kg	2.976	102.217	mg/kg	0.0102 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.48	mg/kg	2.554	1.169	mg/kg	0.000117 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		6.8	mg/kg	1.785	11.581	mg/kg	0.00116 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		90	mg/kg	1.245	106.871	mg/kg	0.0107 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				0.41	mg/kg		0.391	mg/kg	0.0000391 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0303 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-TP113

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-TP113
Sample Depth:
0.20-0.30 m
Moisture content:
11%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.8	pH		7.8	pH	7.8 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4.6	mg/kg	1.32	5.405	mg/kg	0.000541 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		6.7	mg/kg	1.462	8.715	mg/kg	0.000872 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		26	mg/kg	1.126	26.053	mg/kg	0.00261 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	17	mg/kg	1.56	23.6	mg/kg	0.00151 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.05	mg/kg	1.353	<0.0677	mg/kg	<0.00000677 %		<LOD
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		7.1	mg/kg	2.976	18.807	mg/kg	0.00188 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.38	mg/kg	2.554	0.864	mg/kg	0.0000864 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		7	mg/kg	1.785	11.122	mg/kg	0.00111 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		62	mg/kg	1.245	68.683	mg/kg	0.00687 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				1.7	mg/kg		1.513	mg/kg	0.000151 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				0.17	mg/kg		0.151	mg/kg	0.0000151 %	✓	
			201-469-6	83-32-9									
23		fluorene				0.28	mg/kg		0.249	mg/kg	0.0000249 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				2.1	mg/kg		1.869	mg/kg	0.000187 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.53	mg/kg		0.472	mg/kg	0.0000472 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				1.4	mg/kg		1.246	mg/kg	0.000125 %	✓	
			205-912-4	206-44-0									
27		pyrene				1	mg/kg		0.89	mg/kg	0.000089 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.56	mg/kg		0.498	mg/kg	0.0000498 %	✓	
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				1	mg/kg		0.89	mg/kg	0.000089 %	✓	
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				0.51	mg/kg		0.454	mg/kg	0.0000454 %	✓	
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				1.46	mg/kg		1.299	mg/kg	0.00013 %	✓	
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0179 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-TP113 (1)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-TP113 (1)
Sample Depth:
0.50-0.60 m
Moisture content:
16%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.4	pH		8.4	pH	8.4 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.5	mg/kg	1.32	10.536	mg/kg	0.00105 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.1	mg/kg	1.142	0.096	mg/kg	0.0000096 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		6.6	mg/kg	1.462	8.103	mg/kg	0.00081 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		51	mg/kg	1.126	48.233	mg/kg	0.00482 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	38	mg/kg	1.56	49.789	mg/kg	0.00319 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.07	mg/kg	1.353	0.0796	mg/kg	0.00000796 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20	mg/kg	2.976	50.001	mg/kg	0.005 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.1	mg/kg	2.554	2.36	mg/kg	0.000236 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		12	mg/kg	1.785	17.995	mg/kg	0.0018 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		110	mg/kg	1.245	115.012	mg/kg	0.0115 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<**LOD**
		006-007-00-5											
20		naphthalene				1.3	mg/kg		1.092	mg/kg	0.000109 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				0.25	mg/kg		0.21	mg/kg	0.000021 %	✓	
			201-469-6	83-32-9									
23		fluorene				0.17	mg/kg		0.143	mg/kg	0.0000143 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				0.95	mg/kg		0.798	mg/kg	0.0000798 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.23	mg/kg		0.193	mg/kg	0.0000193 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				0.71	mg/kg		0.596	mg/kg	0.0000596 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.58	mg/kg		0.487	mg/kg	0.0000487 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				0.26	mg/kg		0.218	mg/kg	0.0000218 %	✓	
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0303 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-TP113 (2)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-TP113 (2)
Sample Depth:
0.90-1.00 m
Moisture content:
21%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 21% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		5.7	pH		5.7	pH	5.7 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		3.2	mg/kg	1.32	3.338	mg/kg	0.000334 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11	mg/kg	1.462	12.701	mg/kg	0.00127 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		10	mg/kg	1.126	8.895	mg/kg	0.000889 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	13	mg/kg	1.56	16.019	mg/kg	0.00103 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.05	mg/kg	1.353	<0.0677	mg/kg	<0.00000677 %		<LOD
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		6.3	mg/kg	2.976	14.813	mg/kg	0.00148 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.59	mg/kg	2.554	1.19	mg/kg	0.000119 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		17	mg/kg	1.785	23.975	mg/kg	0.0024 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		23	mg/kg	1.245	22.616	mg/kg	0.00226 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0114 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH122 (1)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH122 (1)
Sample Depth:
2.00-2.20 m
Moisture content:
15%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		5	pH		5	pH	5pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		<0.5	mg/kg	1.32	<0.66	mg/kg	<0.000066 %		<**LOD**
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		1.4	mg/kg	1.462	1.739	mg/kg	0.000174 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		3.2	mg/kg	1.126	3.062	mg/kg	0.000306 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	0.99	mg/kg	1.56	1.313	mg/kg	0.0000841 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.05	mg/kg	1.353	<0.0677	mg/kg	<0.00000677 %		<**LOD**
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		4.5	mg/kg	2.976	11.384	mg/kg	0.00114 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.37	mg/kg	2.554	0.803	mg/kg	0.0000803 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		1	mg/kg	1.785	1.517	mg/kg	0.000152 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		4.8	mg/kg	1.245	5.078	mg/kg	0.000508 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.9	mg/kg	1.884	1.441	mg/kg	0.000144 %	✓	
		006-007-00-5											
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.00418 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH102-1-11/11/2022-0.20

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH102-1-11/11/2022-0.20
Sample Depth:
0.20-0.30 m
Moisture content:
9%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 9% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.3 pH		8.3 pH	8.3 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		20 mg/kg	1.32	24.03 mg/kg	0.0024 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4 mg/kg	5.719	<2.288 mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.13 mg/kg	1.142	0.135 mg/kg	0.0000135 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	25.27 mg/kg	0.00253 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		81 mg/kg	1.126	82.989 mg/kg	0.0083 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	45 mg/kg	1.56	63.874 mg/kg	0.0041 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.37 mg/kg	1.353	0.456 mg/kg	0.0000456 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21 mg/kg	2.976	56.876 mg/kg	0.00569 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2.7 mg/kg	2.554	6.275 mg/kg	0.000627 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		17 mg/kg	1.785	27.617 mg/kg	0.00276 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		47 mg/kg	1.245	53.236 mg/kg	0.00532 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				1.8	mg/kg		1.638	mg/kg	0.000164 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				0.35	mg/kg		0.319	mg/kg	0.0000319 %	✓	
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				0.14	mg/kg		0.127	mg/kg	0.0000127 %	✓	
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0336 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH102-2-11/11/2022-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH102-2-11/11/2022-0.50
Sample Depth:
0.50-0.60 m
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.7	pH		7.7	pH	7.7 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.1	mg/kg	1.32	8.156	mg/kg	0.000816 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.57	mg/kg	5.719	2.836	mg/kg	0.000284 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.18	mg/kg	1.142	0.179	mg/kg	0.0000179 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		10	mg/kg	1.462	12.716	mg/kg	0.00127 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		**<LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		56	mg/kg	1.126	54.853	mg/kg	0.00549 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	43	mg/kg	1.56	58.353	mg/kg	0.00374 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.1	mg/kg	1.353	0.118	mg/kg	0.0000118 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		25	mg/kg	2.976	64.734	mg/kg	0.00647 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.87	mg/kg	2.554	1.933	mg/kg	0.000193 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		14	mg/kg	1.785	21.744	mg/kg	0.00217 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		60	mg/kg	1.245	64.974	mg/kg	0.0065 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				1.3	mg/kg		1.131	mg/kg	0.000113 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				0.12	mg/kg		0.104	mg/kg	0.0000104 %	✓	
			201-469-6	83-32-9									
23		fluorene				0.13	mg/kg		0.113	mg/kg	0.0000113 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				0.52	mg/kg		0.452	mg/kg	0.0000452 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.12	mg/kg		0.104	mg/kg	0.0000104 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				0.29	mg/kg		0.252	mg/kg	0.0000252 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.23	mg/kg		0.2	mg/kg	0.00002 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.13	mg/kg		0.113	mg/kg	0.0000113 %	✓	
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.18	mg/kg		0.157	mg/kg	0.0000157 %	✓	
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				0.12	mg/kg		0.104	mg/kg	0.0000104 %	✓	
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				0.17	mg/kg		0.148	mg/kg	0.0000148 %	✓	
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				0.12	mg/kg		0.104	mg/kg	0.0000104 %	✓	
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				0.18	mg/kg		0.157	mg/kg	0.0000157 %	✓	
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				0.41	mg/kg		0.357	mg/kg	0.0000357 %	✓	
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0285 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH102-101-15/11/2022-3.00

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH102-101-15/11/2022-3.00
Sample Depth:
3.00-3.20 m
Moisture content:
85%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 85% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		6.3	pH		6.3	pH	6.3 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		1.8	mg/kg	1.32	0.356	mg/kg	0.0000356 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1	mg/kg	5.719	0.858	mg/kg	0.0000858 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		2.8	mg/kg	1.462	0.614	mg/kg	0.0000614 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		9.3	mg/kg	1.126	1.571	mg/kg	0.000157 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	6.2	mg/kg	1.56	1.451	mg/kg	0.000093 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.05	mg/kg	1.353	<0.0677	mg/kg	<0.00000677 %		<LOD
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		5.4	mg/kg	2.976	2.411	mg/kg	0.000241 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.63	mg/kg	2.554	0.241	mg/kg	0.0000241 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		3.7	mg/kg	1.785	0.991	mg/kg	0.0000991 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		14	mg/kg	1.245	2.614	mg/kg	0.000261 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				0.036	mg/kg		0.0054	mg/kg	0.00000054 %	✓	
		601-020-00-8	200-753-7	71-43-2									
16		toluene				0.18	mg/kg		0.027	mg/kg	0.0000027 %	✓	
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				0.024	mg/kg		0.0036	mg/kg	0.00000036 %	✓	
		601-023-00-4	202-849-4	100-41-4									
18		xylene				0.093	mg/kg		0.0139	mg/kg	0.00000139 %	✓	
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				1	mg/kg	1.884	0.283	mg/kg	0.0000283 %	✓	
		006-007-00-5											
20		naphthalene				0.85	mg/kg		0.128	mg/kg	0.0000128 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				0.12	mg/kg		0.018	mg/kg	0.0000018 %	✓	
			201-469-6	83-32-9									
23		fluorene				0.13	mg/kg		0.0195	mg/kg	0.00000195 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				0.32	mg/kg		0.048	mg/kg	0.0000048 %	✓	
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				0.18	mg/kg		0.027	mg/kg	0.0000027 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.13	mg/kg		0.0195	mg/kg	0.00000195 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.00236 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The risk phrase HP 3 (i) Flammable is unlikely to apply to this waste stream. This is due to the solid soil and natural moisture content of the sample. The concentration required to provide a flammability risk is likely to be >10,000mg. This risk of flammability from solid state soils <10,000mg/kg TPH is negligible and has been deemed non-hazardous if below this concentration. [Source: AGS Waste Classification for Soils 2019]

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 5.4e-07%)
toluene: (conc.: 2.7e-06%)
ethylbenzene: (conc.: 3.6e-07%)

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

xylene: (conc.: 1.4e-06%)

Classification of sample: S1-TP112-3-15/11/2022-0.20

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-TP112-3-15/11/2022-0.20
Sample Depth:
0.20-0.30 m
Moisture content:
21%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 21% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8	pH		8	pH	8pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		18	mg/kg	1.32	18.775	mg/kg	0.00188 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2	mg/kg	1.142	0.18	mg/kg	0.000018 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11	mg/kg	1.462	12.701	mg/kg	0.00127 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		120	mg/kg	1.126	106.734	mg/kg	0.0107 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	32	mg/kg	1.56	39.432	mg/kg	0.00253 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.05	mg/kg	1.353	<0.0677	mg/kg	<0.00000677 %		<**LOD**
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		43	mg/kg	2.976	101.104	mg/kg	0.0101 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.6	mg/kg	2.554	3.228	mg/kg	0.000323 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		30	mg/kg	1.785	42.309	mg/kg	0.00423 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		55	mg/kg	1.245	54.083	mg/kg	0.00541 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		200	mg/kg		158	mg/kg	0.0158 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<**LOD**
		006-007-00-5											
20		naphthalene				1.8	mg/kg		1.422	mg/kg	0.000142 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				0.12	mg/kg		0.0948	mg/kg	0.00000948 %	✓	
			205-917-1	208-96-8									
22		acenaphthene				0.24	mg/kg		0.19	mg/kg	0.000019 %	✓	
			201-469-6	83-32-9									
23		fluorene				0.19	mg/kg		0.15	mg/kg	0.000015 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				2	mg/kg		1.58	mg/kg	0.000158 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.42	mg/kg		0.332	mg/kg	0.0000332 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				2.8	mg/kg		2.212	mg/kg	0.000221 %	✓	
			205-912-4	206-44-0									
27		pyrene				1.9	mg/kg		1.501	mg/kg	0.00015 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				1.3	mg/kg		1.027	mg/kg	0.000103 %	✓	
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				1.8	mg/kg		1.422	mg/kg	0.000142 %	✓	
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				1.7	mg/kg		1.343	mg/kg	0.000134 %	✓	
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				1.1	mg/kg		0.869	mg/kg	0.0000869 %	✓	
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				0.18	mg/kg		0.142	mg/kg	0.0000142 %	✓	
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				0.95	mg/kg		0.751	mg/kg	0.0000751 %	✓	
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
				P1186									
35		benzo[bk]fluoranthene				3.59	mg/kg		2.836	mg/kg	0.000284 %	✓	
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0543 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The risk phrase HP 3 (i) Flammable is unlikely to apply to this waste stream. This is due to the solid soil and natural moisture content of the sample. The concentration required to provide a flammability risk is likely to be >10,000mg. This risk of flammability from solid state soils <10,000mg/kg TPH is negligible and has been deemed non-hazardous if below this concentration. [Source: AGS Waste Classification for Soils 2019]

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0158%)

Classification of sample: S1-TP112-8-15/11/2022-0.90

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-TP112-8-15/11/2022-0.90
Sample Depth:
0.90-10.00 m
Moisture content:
9.8%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 9.8% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.3	pH		7.3	pH	7.3 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		23	mg/kg	1.32	27.391	mg/kg	0.00274 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.13	mg/kg	1.142	0.134	mg/kg	0.0000134 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		1.5	mg/kg	1.462	1.977	mg/kg	0.000198 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		51	mg/kg	1.126	51.793	mg/kg	0.00518 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	36	mg/kg	1.56	50.65	mg/kg	0.00325 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.17	mg/kg	1.353	0.208	mg/kg	0.0000208 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		36	mg/kg	2.976	96.645	mg/kg	0.00966 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2.3	mg/kg	2.554	5.298	mg/kg	0.00053 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		2.8	mg/kg	1.785	4.509	mg/kg	0.000451 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		45	mg/kg	1.245	50.523	mg/kg	0.00505 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				0.99	mg/kg		0.893	mg/kg	0.0000893 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				0.15	mg/kg		0.135	mg/kg	0.0000135 %	✓	
			201-469-6	83-32-9									
23		fluorene				0.15	mg/kg		0.135	mg/kg	0.0000135 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				1.4	mg/kg		1.263	mg/kg	0.000126 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.33	mg/kg		0.298	mg/kg	0.0000298 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				2.1	mg/kg		1.894	mg/kg	0.000189 %	✓	
			205-912-4	206-44-0									
27		pyrene				1.6	mg/kg		1.443	mg/kg	0.000144 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.85	mg/kg		0.767	mg/kg	0.0000767 %	✓	
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.83	mg/kg		0.749	mg/kg	0.0000749 %	✓	
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				0.86	mg/kg		0.776	mg/kg	0.0000776 %	✓	
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				0.52	mg/kg		0.469	mg/kg	0.0000469 %	✓	
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				0.12	mg/kg		0.108	mg/kg	0.0000108 %	✓	
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				0.47	mg/kg		0.424	mg/kg	0.0000424 %	✓	
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				1.64	mg/kg		1.479	mg/kg	0.000148 %	✓	
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0296 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-TP112-11-15/11/2022-1.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-TP112-11-15/11/2022-1.50
Sample Depth:
1.50-1.60 m
Moisture content:
29%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 29% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.7	pH		7.7	pH	7.7 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.5	mg/kg	1.32	7.031	mg/kg	0.000703 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.32	mg/kg	1.142	0.26	mg/kg	0.000026 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		3.9	mg/kg	1.462	4.047	mg/kg	0.000405 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		62	mg/kg	1.126	49.562	mg/kg	0.00496 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	32	mg/kg	1.56	35.439	mg/kg	0.00227 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.35	mg/kg	1.353	0.336	mg/kg	0.0000336 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20	mg/kg	2.976	42.263	mg/kg	0.00423 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.7	mg/kg	2.554	3.082	mg/kg	0.000308 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		9.1	mg/kg	1.785	11.534	mg/kg	0.00115 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		58	mg/kg	1.245	51.257	mg/kg	0.00513 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				5.4	mg/kg	1.884	7.223	mg/kg	0.000722 %	✓	
		006-007-00-5											
20		naphthalene				0.35	mg/kg		0.248	mg/kg	0.0000248 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				0.42	mg/kg		0.298	mg/kg	0.0000298 %	✓	
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
26		fluoranthene				0.53	mg/kg		0.376	mg/kg	0.0000376 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.43	mg/kg		0.305	mg/kg	0.0000305 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.19	mg/kg		0.135	mg/kg	0.0000135 %	✓	
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.2	mg/kg		0.142	mg/kg	0.0000142 %	✓	
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				0.15	mg/kg		0.107	mg/kg	0.0000107 %	✓	
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				0.15	mg/kg		0.107	mg/kg	0.0000107 %	✓	
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				0.16	mg/kg		0.114	mg/kg	0.0000114 %	✓	
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
				P1186									
35		benzo[bk]fluoranthene				0.41	mg/kg		0.291	mg/kg	0.0000291 %	✓	
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0215 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-TP111-5-15/11/2022-0.40

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-TP111-5-15/11/2022-0.40
Sample Depth:
0.40-0.50 m
Moisture content:
12%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 12% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		6	pH		6	pH	6pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.5	mg/kg	1.32	11.038	mg/kg	0.0011 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.12	mg/kg	1.142	0.121	mg/kg	0.0000121 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		9.7	mg/kg	1.462	12.476	mg/kg	0.00125 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		29	mg/kg	1.126	28.733	mg/kg	0.00287 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	22	mg/kg	1.56	30.198	mg/kg	0.00194 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.07	mg/kg	1.353	0.0834	mg/kg	0.00000834 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19	mg/kg	2.976	49.763	mg/kg	0.00498 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.93	mg/kg	2.554	2.09	mg/kg	0.000209 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		12	mg/kg	1.785	18.852	mg/kg	0.00189 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		55	mg/kg	1.245	60.244	mg/kg	0.00602 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				0.67	mg/kg		0.59	mg/kg	0.000059 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				0.21	mg/kg		0.185	mg/kg	0.0000185 %	✓	
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				0.12	mg/kg		0.106	mg/kg	0.0000106 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.12	mg/kg		0.106	mg/kg	0.0000106 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0219 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-TP111-6-15/11/2022-0.90

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-TP111-6-15/11/2022-0.90
Sample Depth:
0.90-1.00 m
Moisture content:
9.8%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 9.8% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		6	pH		6	pH	6pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.8	mg/kg	1.32	8.098	mg/kg	0.00081 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		10	mg/kg	1.462	13.183	mg/kg	0.00132 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		30	mg/kg	1.126	30.467	mg/kg	0.00305 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	19	mg/kg	1.56	26.732	mg/kg	0.00171 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.05	mg/kg	1.353	<0.0677	mg/kg	<0.00000677 %		<**LOD**
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23	mg/kg	2.976	61.746	mg/kg	0.00617 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.93	mg/kg	2.554	2.142	mg/kg	0.000214 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		12	mg/kg	1.785	19.323	mg/kg	0.00193 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		64	mg/kg	1.245	71.855	mg/kg	0.00719 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				0.47	mg/kg		0.424	mg/kg	0.0000424 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0241 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-TP111-1-15/11/2022-0.20

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-TP111-1-15/11/2022-0.20
Sample Depth:
0.20-0.30 m
Moisture content:
16%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.2	pH		7.2	pH	7.2 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		27	mg/kg	1.32	29.945	mg/kg	0.00299 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.27	mg/kg	1.142	0.259	mg/kg	0.0000259 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		8.7	mg/kg	1.462	10.681	mg/kg	0.00107 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18	mg/kg	1.126	17.023	mg/kg	0.0017 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	33	mg/kg	1.56	43.238	mg/kg	0.00277 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.05	mg/kg	1.353	0.0568	mg/kg	0.00000568 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		7.4	mg/kg	2.976	18.5	mg/kg	0.00185 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.1	mg/kg	2.554	2.36	mg/kg	0.000236 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		16	mg/kg	1.785	23.993	mg/kg	0.0024 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		22	mg/kg	1.245	23.002	mg/kg	0.0023 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				0.68	mg/kg		0.571	mg/kg	0.0000571 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				0.25	mg/kg		0.21	mg/kg	0.000021 %	✓	
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				0.13	mg/kg		0.109	mg/kg	0.0000109 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.15	mg/kg		0.126	mg/kg	0.0000126 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.017 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-TP114

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-TP114
Sample Depth:
0.1-0.15 m
Moisture content:
9%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 9% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.4	pH		7.4	pH	7.4 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11	mg/kg	1.32	13.216	mg/kg	0.00132 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.44	mg/kg	5.719	2.29	mg/kg	0.000229 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		1.9	mg/kg	1.462	2.527	mg/kg	0.000253 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17	mg/kg	1.126	17.417	mg/kg	0.00174 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	34	mg/kg	1.56	48.261	mg/kg	0.00309 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.05	mg/kg	1.353	<0.0677	mg/kg	<0.00000677 %		<**LOD**
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		3.4	mg/kg	2.976	9.209	mg/kg	0.000921 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.5	mg/kg	2.554	3.486	mg/kg	0.000349 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		4.4	mg/kg	1.785	7.148	mg/kg	0.000715 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		11	mg/kg	1.245	12.46	mg/kg	0.00125 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				1	mg/kg		0.91	mg/kg	0.000091 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				0.43	mg/kg		0.391	mg/kg	0.0000391 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				1.1	mg/kg		1.001	mg/kg	0.0001 %	✓	
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				0.21	mg/kg		0.191	mg/kg	0.0000191 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.3	mg/kg		0.273	mg/kg	0.0000273 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.24	mg/kg		0.218	mg/kg	0.0000218 %	✓	
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.33	mg/kg		0.3	mg/kg	0.00003 %	✓	
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				0.12	mg/kg		0.109	mg/kg	0.0000109 %	✓	
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				0.11	mg/kg		0.1	mg/kg	0.00001 %	✓	
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				0.2	mg/kg		0.182	mg/kg	0.0000182 %	✓	
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				0.18	mg/kg		0.164	mg/kg	0.0000164 %	✓	
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0115 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-TP114 (1)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-TP114 (1)
Sample Depth:
0.3-0.35 m
Moisture content:
8.9%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 8.9% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		5.9 pH		5.9 pH	5.9 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	13.231 mg/kg	0.00132 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.9 mg/kg	5.719	9.899 mg/kg	0.00099 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.11 mg/kg	1.142	0.114 mg/kg	0.0000114 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		5.7 mg/kg	1.462	7.589 mg/kg	0.000759 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		**<LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		32 mg/kg	1.126	32.822 mg/kg	0.00328 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	36 mg/kg	1.56	51.156 mg/kg	0.00328 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.06 mg/kg	1.353	0.074 mg/kg	0.0000074 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21 mg/kg	2.976	56.939 mg/kg	0.00569 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.5 mg/kg	2.554	3.49 mg/kg	0.000349 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		10 mg/kg	1.785	16.263 mg/kg	0.00163 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		54 mg/kg	1.245	61.232 mg/kg	0.00612 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				0.49	mg/kg		0.446	mg/kg	0.0000446 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				0.13	mg/kg		0.118	mg/kg	0.0000118 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				0.3	mg/kg		0.273	mg/kg	0.0000273 %	✓	
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0249 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: S1-TP114 (1)

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"
The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample FAILS the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria.

The sample FAILS the Hazardous (Hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	48	3	5	6
2	LOI (loss on ignition)	%	13	-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.01	6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.1	1	-	-
5	Mineral oil (C10 to C40)	mg/kg	<10	500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<2	100	-	-
7	pH	pH	5.9	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg	0.015	-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg	0.019	0.5	2	25
10	barium	mg/kg	0.25	20	100	300
11	cadmium	mg/kg	<0.0001	0.04	1	5
12	chromium	mg/kg	<0.0005	0.5	10	70
13	copper	mg/kg	<0.0005	2	50	100
14	mercury	mg/kg	<5.0e-05	0.01	0.2	2
15	molybdenum	mg/kg	0.015	0.5	10	30
16	nickel	mg/kg	0.017	0.4	10	40
17	lead	mg/kg	<0.0005	0.5	10	50
18	antimony	mg/kg	0.014	0.06	0.7	5
19	selenium	mg/kg	0.015	0.1	0.5	7
20	zinc	mg/kg	0.004	4	50	200
21	chloride	mg/kg	<10	800	15,000	25,000
22	fluoride	mg/kg	1.6	10	150	500
23	sulphate	mg/kg	160	1,000	20,000	50,000
24	phenol index	mg/kg	<0.5	1	-	-
25	DOC (dissolved organic carbon)	mg/kg	<50	500	800	1,000
26	TDS (total dissolved solids)	mg/kg	730	4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Inert WAC criteria fail
	SNRHW WAC criteria fail
	Hazardous WAC criteria fail

Classification of sample: S1-TP114 (2)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-TP114 (2)
Sample Depth:
0.9-1.0 m
Moisture content:
6.9%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 6.9% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.4 pH		8.4 pH	8.4 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	14.751 mg/kg	0.00148 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.5 mg/kg	5.719	7.987 mg/kg	0.000799 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.21 mg/kg	1.142	0.223 mg/kg	0.0000223 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		6.5 mg/kg	1.462	8.845 mg/kg	0.000884 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		37 mg/kg	1.126	38.783 mg/kg	0.00388 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	48 mg/kg	1.56	69.705 mg/kg	0.00447 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.12 mg/kg	1.353	0.151 mg/kg	0.0000151 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		25 mg/kg	2.976	69.273 mg/kg	0.00693 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2.9 mg/kg	2.554	6.895 mg/kg	0.00069 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		8.2 mg/kg	1.785	13.628 mg/kg	0.00136 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		55 mg/kg	1.245	63.736 mg/kg	0.00637 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<**LOD**
		006-007-00-5											
20		naphthalene				1.2	mg/kg		1.117	mg/kg	0.000112 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				0.54	mg/kg		0.503	mg/kg	0.0000503 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.12	mg/kg		0.112	mg/kg	0.0000112 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				0.36	mg/kg		0.335	mg/kg	0.0000335 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.3	mg/kg		0.279	mg/kg	0.0000279 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0285 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH110

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH110
Sample Depth:
0.3-0.4 m
Moisture content:
3.3%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 3.3% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.1	pH		7.1	pH	7.1 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7	mg/kg	1.32	8.937	mg/kg	0.000894 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.21	mg/kg	1.142	0.232	mg/kg	0.0000232 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		6.2	mg/kg	1.462	8.763	mg/kg	0.000876 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		37	mg/kg	1.126	40.283	mg/kg	0.00403 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	23	mg/kg	1.56	34.692	mg/kg	0.00222 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.05	mg/kg	1.353	0.0654	mg/kg	0.00000654 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		47	mg/kg	2.976	135.268	mg/kg	0.0135 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.83	mg/kg	2.554	2.05	mg/kg	0.000205 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		12	mg/kg	1.785	20.715	mg/kg	0.00207 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		120	mg/kg	1.245	144.437	mg/kg	0.0144 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				0.56	mg/kg		0.542	mg/kg	0.0000542 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				0.25	mg/kg		0.242	mg/kg	0.0000242 %	✓	
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.04 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH110 (1)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH110 (1)
Sample Depth:
0.6-0.7 m
Moisture content:
4.1%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 4.1% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.2	pH		8.2	pH	8.2 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.1	mg/kg	1.32	10.256	mg/kg	0.00103 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.41	mg/kg	5.719	2.249	mg/kg	0.000225 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.27	mg/kg	1.142	0.296	mg/kg	0.0000296 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		5	mg/kg	1.462	7.008	mg/kg	0.000701 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		37	mg/kg	1.126	39.95	mg/kg	0.00399 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	23	mg/kg	1.56	34.405	mg/kg	0.00221 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.14	mg/kg	1.353	0.182	mg/kg	0.0000182 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		41	mg/kg	2.976	117.024	mg/kg	0.0117 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2	mg/kg	2.554	4.898	mg/kg	0.00049 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		7.3	mg/kg	1.785	12.498	mg/kg	0.00125 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		88	mg/kg	1.245	105.044	mg/kg	0.0105 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<**LOD**
		006-007-00-5											
20		naphthalene				0.7	mg/kg		0.671	mg/kg	0.0000671 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				0.38	mg/kg		0.364	mg/kg	0.0000364 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				1.7	mg/kg		1.63	mg/kg	0.000163 %	✓	
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
26		fluoranthene				0.13	mg/kg		0.125	mg/kg	0.0000125 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.17	mg/kg		0.163	mg/kg	0.0000163 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.14	mg/kg		0.134	mg/kg	0.0000134 %	✓	
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.24	mg/kg		0.23	mg/kg	0.000023 %	✓	
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				0.15	mg/kg		0.144	mg/kg	0.0000144 %	✓	
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
				P1186									
35		benzo[bk]fluoranthene				0.19	mg/kg		0.182	mg/kg	0.0000182 %	✓	
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0338 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH108

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH108
Sample Depth:
0.30-0.40 m
Moisture content:
8.2%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 8.2% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.3	pH		8.3	pH	8.3 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5.8	mg/kg	1.32	7.03	mg/kg	0.000703 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.71	mg/kg	5.719	3.728	mg/kg	0.000373 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		7	mg/kg	1.462	9.392	mg/kg	0.000939 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		29	mg/kg	1.126	29.973	mg/kg	0.003 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	9.1	mg/kg	1.56	13.03	mg/kg	0.000835 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.06	mg/kg	1.353	0.0746	mg/kg	0.00000746 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		15	mg/kg	2.976	40.983	mg/kg	0.0041 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.97	mg/kg	2.554	2.274	mg/kg	0.000227 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		3	mg/kg	1.785	4.916	mg/kg	0.000492 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		28	mg/kg	1.245	31.994	mg/kg	0.0032 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				0.0065	mg/kg		0.0059	mg/kg	0.000000597 %	✓	
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				1.7	mg/kg		1.561	mg/kg	0.000156 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				1.7	mg/kg		1.561	mg/kg	0.000156 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				7.4	mg/kg		6.793	mg/kg	0.000679 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.24	mg/kg		0.22	mg/kg	0.000022 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				1.2	mg/kg		1.102	mg/kg	0.00011 %	✓	
			205-912-4	206-44-0									
27		pyrene				1.3	mg/kg		1.193	mg/kg	0.000119 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.9	mg/kg		0.826	mg/kg	0.0000826 %	✓	
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				1.9	mg/kg		1.744	mg/kg	0.000174 %	✓	
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				0.66	mg/kg		0.606	mg/kg	0.0000606 %	✓	
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				0.38	mg/kg		0.349	mg/kg	0.0000349 %	✓	
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				0.23	mg/kg		0.211	mg/kg	0.0000211 %	✓	
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				0.59	mg/kg		0.542	mg/kg	0.0000542 %	✓	
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				1.58	mg/kg		1.45	mg/kg	0.000145 %	✓	
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0169 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The risk phrase HP 3 (i) Flammable is unlikely to apply to this waste stream. This is due to the solid soil and natural moisture content of the sample. The concentration required to provide a flammability risk is likely to be >10,000mg. This risk of flammability from solid state soils <10,000mg/kg TPH is negligible and has been deemed non-hazardous if below this concentration. [Source: AGS Waste Classification for Soils 2019]

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinand:

benzene: (conc.: 5.97e-07%)

WAC results for sample: S1-BH108

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"
The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample FAILS the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria.

The sample FAILS the Hazardous (Hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	76	3	5	6
2	LOI (loss on ignition)	%	31	-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	0.013	6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.1	1	-	-
5	Mineral oil (C10 to C40)	mg/kg	90	500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	66	100	-	-
7	pH	pH	8.3	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg	<0.002	-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg	0.0063	0.5	2	25
10	barium	mg/kg	0.57	20	100	300
11	cadmium	mg/kg	<0.0001	0.04	1	5
12	chromium	mg/kg	<0.0005	0.5	10	70
13	copper	mg/kg	0.0028	2	50	100
14	mercury	mg/kg	<5.0e-05	0.01	0.2	2
15	molybdenum	mg/kg	0.061	0.5	10	30
16	nickel	mg/kg	0.0059	0.4	10	40
17	lead	mg/kg	<0.0005	0.5	10	50
18	antimony	mg/kg	0.01	0.06	0.7	5
19	selenium	mg/kg	0.029	0.1	0.5	7
20	zinc	mg/kg	<0.0025	4	50	200
21	chloride	mg/kg	<10	800	15,000	25,000
22	fluoride	mg/kg	4.2	10	150	500
23	sulphate	mg/kg	260	1,000	20,000	50,000
24	phenol index	mg/kg	<0.5	1	-	-
25	DOC (dissolved organic carbon)	mg/kg	69	500	800	1,000
26	TDS (total dissolved solids)	mg/kg	1100	4,000	60,000	100,000

Key

User supplied data
Not applicable
Inert WAC criteria fail
SNRHW WAC criteria fail
Hazardous WAC criteria fail

Classification of sample: S1-BH110-102-18/11/2022-1.80

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH110-102-18/11/2022-1.80
Sample Depth:
1.80-1.90 m
Moisture content:
1.1%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 1.1% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.3 pH		8.3 pH	8.3 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4.9 mg/kg	1.32	6.398 mg/kg	0.00064 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.87 mg/kg	5.719	4.921 mg/kg	0.000492 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		2.2 mg/kg	1.462	3.18 mg/kg	0.000318 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		77 mg/kg	1.126	85.74 mg/kg	0.00857 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	36 mg/kg	1.56	55.536 mg/kg	0.00356 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.09 mg/kg	1.353	0.12 mg/kg	0.000012 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		16 mg/kg	2.976	47.096 mg/kg	0.00471 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.7 mg/kg	2.554	4.294 mg/kg	0.000429 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		4.7 mg/kg	1.785	8.298 mg/kg	0.00083 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		40 mg/kg	1.245	49.241 mg/kg	0.00492 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
15		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
16		toluene	601-021-00-3	203-625-9	108-88-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
17		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
18		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
20		naphthalene	601-052-00-2	202-049-5	91-20-3		0.13 mg/kg		0.129 mg/kg	0.0000129 %	✓	
21		acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22		acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23		fluorene		201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
24		phenanthrene		201-581-5	85-01-8		0.12 mg/kg		0.119 mg/kg	0.0000119 %	✓	
25		anthracene		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26		fluoranthene		205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
27		pyrene		204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
28		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
29		chrysene	601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
30		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
31		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
32		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
33		benzo[ghi]perylene		205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
34		monohydric phenols			P1186		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
35		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
									Total:	0.0259 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH113

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH113
Sample Depth:
0.50-0.60 m
Moisture content:
10%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 10% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.6	pH		7.6	pH	7.6 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.8	mg/kg	1.32	8.08	mg/kg	0.000808 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.11	mg/kg	1.142	0.113	mg/kg	0.0000113 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		4.5	mg/kg	1.462	5.919	mg/kg	0.000592 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		33	mg/kg	1.126	33.439	mg/kg	0.00334 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	20	mg/kg	1.56	28.077	mg/kg	0.0018 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.07	mg/kg	1.353	0.0853	mg/kg	0.00000853 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		38	mg/kg	2.976	101.788	mg/kg	0.0102 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.2	mg/kg	2.554	2.758	mg/kg	0.000276 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		5.2	mg/kg	1.785	8.355	mg/kg	0.000835 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		66	mg/kg	1.245	73.936	mg/kg	0.00739 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				0.39	mg/kg		0.351	mg/kg	0.0000351 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0269 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH103-101-22/11/2022-0.30

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH103-101-22/11/2022-0.30
Sample Depth:
0.30-0.40 m
Moisture content:
9.4%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 9.4% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.1 pH		8.1 pH	8.1 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16 mg/kg	1.32	19.139 mg/kg	0.00191 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4 mg/kg	5.719	<2.288 mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		2.3 mg/kg	1.142	2.38 mg/kg	0.000238 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		8 mg/kg	1.462	10.593 mg/kg	0.00106 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		57 mg/kg	1.126	58.143 mg/kg	0.00581 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	46 mg/kg	1.56	65.007 mg/kg	0.00417 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.59 mg/kg	1.353	0.723 mg/kg	0.0000723 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		38 mg/kg	2.976	102.467 mg/kg	0.0102 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2 mg/kg	2.554	4.628 mg/kg	0.000463 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		9.9 mg/kg	1.785	16.012 mg/kg	0.0016 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		420 mg/kg	1.245	473.639 mg/kg	0.0474 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				1.1	mg/kg		0.997	mg/kg	0.0000997 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				0.45	mg/kg		0.408	mg/kg	0.0000408 %	✓	
			201-469-6	83-32-9									
23		fluorene				0.28	mg/kg		0.254	mg/kg	0.0000254 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				1	mg/kg		0.906	mg/kg	0.0000906 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.3	mg/kg		0.272	mg/kg	0.0000272 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				0.92	mg/kg		0.834	mg/kg	0.0000834 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.67	mg/kg		0.607	mg/kg	0.0000607 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0749 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: S1-BH103-101-22/11/2022-0.30

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"
The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample FAILS the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria.

The sample FAILS the Hazardous (Hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	38	3	5	6
2	LOI (loss on ignition)	%	2	-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.01	6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.1	1	-	-
5	Mineral oil (C10 to C40)	mg/kg	<10	500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	4.9	100	-	-
7	pH	pH	8.1	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg	0.015	-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg	0.0044	0.5	2	25
10	barium	mg/kg	0.31	20	100	300
11	cadmium	mg/kg	<0.0001	0.04	1	5
12	chromium	mg/kg	<0.0005	0.5	10	70
13	copper	mg/kg	0.0005	2	50	100
14	mercury	mg/kg	<5.0e-05	0.01	0.2	2
15	molybdenum	mg/kg	0.025	0.5	10	30
16	nickel	mg/kg	0.0007	0.4	10	40
17	lead	mg/kg	<0.0005	0.5	10	50
18	antimony	mg/kg	0.0008	0.06	0.7	5
19	selenium	mg/kg	0.022	0.1	0.5	7
20	zinc	mg/kg	<0.0025	4	50	200
21	chloride	mg/kg	16	800	15,000	25,000
22	fluoride	mg/kg	3.1	10	150	500
23	sulphate	mg/kg	560	1,000	20,000	50,000
24	phenol index	mg/kg	<0.5	1	-	-
25	DOC (dissolved organic carbon)	mg/kg	<50	500	800	1,000
26	TDS (total dissolved solids)	mg/kg	1700	4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Inert WAC criteria fail
	SNRHW WAC criteria fail
	Hazardous WAC criteria fail

Classification of sample: S1-BH103-103-22/11/2022-1.00

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH103-103-22/11/2022-1.00
Sample Depth:
1.00-1.10 m
Moisture content:
10%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 10% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.3	pH		8.3	pH	8.3 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11	mg/kg	1.32	13.071	mg/kg	0.00131 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.42	mg/kg	5.719	2.162	mg/kg	0.000216 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.23	mg/kg	1.142	0.236	mg/kg	0.0000236 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17	mg/kg	1.462	22.362	mg/kg	0.00224 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		**<LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		40	mg/kg	1.126	40.532	mg/kg	0.00405 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	150	mg/kg	1.56	210.575	mg/kg	0.0135 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.14	mg/kg	1.353	0.171	mg/kg	0.0000171 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		37	mg/kg	2.976	99.11	mg/kg	0.00991 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		9	mg/kg	2.554	20.686	mg/kg	0.00207 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		14	mg/kg	1.785	22.493	mg/kg	0.00225 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		130	mg/kg	1.245	145.632	mg/kg	0.0146 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				1.3	mg/kg		1.17	mg/kg	0.000117 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				1	mg/kg		0.9	mg/kg	0.00009 %	✓	
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				0.48	mg/kg		0.432	mg/kg	0.0000432 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.38	mg/kg		0.342	mg/kg	0.0000342 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0518 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH103-107-24/11/2022-2.20

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:
S1-BH103-107-24/11/2022-2.20
Sample Depth:
2.20-2.40 m
Moisture content:
2.9%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.146%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.146%)

Determinands

Moisture content: 2.9% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.3 pH		8.3 pH	8.3 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.6 mg/kg	1.32	9.743 mg/kg	0.000974 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.48 mg/kg	5.719	2.666 mg/kg	0.000267 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.1 mg/kg	1.142	0.111 mg/kg	0.0000111 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		5.7 mg/kg	1.462	8.089 mg/kg	0.000809 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		37 mg/kg	1.126	40.45 mg/kg	0.00404 %	✓	

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	20 mg/kg	1.56	30.292 mg/kg	0.00194 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.07 mg/kg	1.353	0.092 mg/kg	0.0000092 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		34 mg/kg	2.976	98.258 mg/kg	0.00983 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.5 mg/kg	2.554	3.72 mg/kg	0.000372 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		6.1 mg/kg	1.785	10.574 mg/kg	0.00106 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		73 mg/kg	1.245	88.229 mg/kg	0.00882 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		1500 mg/kg		1456.5 mg/kg	0.146 %	✓	
15	benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
16	toluene	601-021-00-3	203-625-9	108-88-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
17	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
18	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
20	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
21	acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22	acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	fluorene		201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
24	phenanthrene		201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
25	anthracene		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26	fluoranthene		205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
27	pyrene		204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
28	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
29	chrysene	601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
30	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
31	indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
32	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
33	benzo[ghi]perylene		205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.174 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The risk phrase HP 3 (i) Flammable is unlikely to apply to this waste stream. This is due to the solid soil and natural moisture content of the sample. The concentration required to provide a flammability risk is likely to be >10,000mg. This risk of flammability from solid state soils <10,000mg/kg TPH is negligible and has been deemed non-hazardous if below this concentration. [Source: AGS Waste Classification for Soils 2019]

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.146%)

Classification of sample: S1-BH103-116-24/11/2022-7.00

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH103-116-24/11/2022-7.00
Sample Depth:
7.00-7.20 m
Moisture content:
64%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 64% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		5.6 pH		5.6 pH	5.6 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		<0.5 mg/kg	1.32	<0.66 mg/kg	<0.000066 %		<LOD
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4 mg/kg	5.719	<2.288 mg/kg	<0.000229 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		0.7 mg/kg	1.462	0.368 mg/kg	0.0000368 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		2.3 mg/kg	1.126	0.932 mg/kg	0.0000932 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	0.96 mg/kg	1.56	0.539 mg/kg	0.0000346 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		2 mg/kg	2.976	2.143 mg/kg	0.000214 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.38 mg/kg	2.554	0.349 mg/kg	0.0000349 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		0.7 mg/kg	1.785	0.45 mg/kg	0.000045 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		1.6 mg/kg	1.245	0.717 mg/kg	0.0000717 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				0.19	mg/kg		0.0684	mg/kg	0.00000684 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.00222 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH114-1-25/11/2022-0.20

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH114-1-25/11/2022-0.20
Sample Depth:
0.20-0.30 m
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.2 pH		8.2 pH	8.2 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17 mg/kg	1.32	19.528 mg/kg	0.00195 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4 mg/kg	5.719	<2.288 mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.71 mg/kg	1.142	0.706 mg/kg	0.0000706 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13 mg/kg	1.462	16.53 mg/kg	0.00165 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		130 mg/kg	1.126	127.338 mg/kg	0.0127 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	67 mg/kg	1.56	90.922 mg/kg	0.00583 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.1 mg/kg	1.353	0.118 mg/kg	0.0000118 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27 mg/kg	2.976	69.912 mg/kg	0.00699 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.7 mg/kg	2.554	3.777 mg/kg	0.000378 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		24 mg/kg	1.785	37.275 mg/kg	0.00373 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		96 mg/kg	1.245	103.959 mg/kg	0.0104 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<**LOD**
		006-007-00-5											
20		naphthalene				1	mg/kg		0.87	mg/kg	0.000087 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				0.15	mg/kg		0.13	mg/kg	0.000013 %	✓	
			205-917-1	208-96-8									
22		acenaphthene				0.18	mg/kg		0.157	mg/kg	0.0000157 %	✓	
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				2.1	mg/kg		1.827	mg/kg	0.000183 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.55	mg/kg		0.479	mg/kg	0.0000479 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				3.3	mg/kg		2.871	mg/kg	0.000287 %	✓	
			205-912-4	206-44-0									
27		pyrene				2.7	mg/kg		2.349	mg/kg	0.000235 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				1.3	mg/kg		1.131	mg/kg	0.000113 %	✓	
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				2	mg/kg		1.74	mg/kg	0.000174 %	✓	
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				1	mg/kg		0.87	mg/kg	0.000087 %	✓	
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				0.8	mg/kg		0.696	mg/kg	0.0000696 %	✓	
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				0.76	mg/kg		0.661	mg/kg	0.0000661 %	✓	
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
				P1186									
35		benzo[bk]fluoranthene				3.6	mg/kg		3.132	mg/kg	0.000313 %	✓	
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0469 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH114-101-29/11/2022-0.70

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH114-101-29/11/2022-0.70
Sample Depth:
0.70-1.00 m
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.6 pH		8.6 pH	8.6 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13 mg/kg	1.32	14.933 mg/kg	0.00149 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.56 mg/kg	5.719	2.786 mg/kg	0.000279 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		5.4 mg/kg	1.462	6.866 mg/kg	0.000687 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		58 mg/kg	1.126	56.812 mg/kg	0.00568 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	23 mg/kg	1.56	31.212 mg/kg	0.002 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.11 mg/kg	1.353	0.13 mg/kg	0.000013 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17 mg/kg	2.976	44.019 mg/kg	0.0044 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.1 mg/kg	2.554	2.444 mg/kg	0.000244 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		9.5 mg/kg	1.785	14.755 mg/kg	0.00148 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		31 mg/kg	1.245	33.57 mg/kg	0.00336 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
15		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
16		toluene	601-021-00-3	203-625-9	108-88-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
17		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
18		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
20		naphthalene	601-052-00-2	202-049-5	91-20-3		0.45 mg/kg		0.391 mg/kg	0.0000391 %	✓	
21		acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22		acenaphthene		201-469-6	83-32-9		0.1 mg/kg		0.087 mg/kg	0.0000087 %	✓	
23		fluorene		201-695-5	86-73-7		0.11 mg/kg		0.0957 mg/kg	0.00000957 %	✓	
24		phenanthrene		201-581-5	85-01-8		0.69 mg/kg		0.6 mg/kg	0.00006 %	✓	
25		anthracene		204-371-1	120-12-7		0.24 mg/kg		0.209 mg/kg	0.0000209 %	✓	
26		fluoranthene		205-912-4	206-44-0		0.6 mg/kg		0.522 mg/kg	0.0000522 %	✓	
27		pyrene		204-927-3	129-00-0		0.42 mg/kg		0.365 mg/kg	0.0000365 %	✓	
28		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.24 mg/kg		0.209 mg/kg	0.0000209 %	✓	
29		chrysene	601-048-00-0	205-923-4	218-01-9		0.29 mg/kg		0.252 mg/kg	0.0000252 %	✓	
30		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.26 mg/kg		0.226 mg/kg	0.0000226 %	✓	
31		indeno[123-cd]pyrene		205-893-2	193-39-5		0.24 mg/kg		0.209 mg/kg	0.0000209 %	✓	
32		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
33		benzo[ghi]perylene		205-883-8	191-24-2		0.1 mg/kg		0.087 mg/kg	0.0000087 %	✓	
34		monohydric phenols			P1186		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
35		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.4 mg/kg		0.348 mg/kg	0.0000348 %	✓	
									Total:	0.0212 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH114-103-29/11/2022-1.70

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH114-103-29/11/2022-1.70
Sample Depth:
1.70-1.90 m
Moisture content:
24%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 24% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		6.7	pH		6.7	pH	6.7 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.6	mg/kg	1.32	9.633	mg/kg	0.000963 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.48	mg/kg	5.719	2.086	mg/kg	0.000209 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		9.8	mg/kg	1.462	10.886	mg/kg	0.00109 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		7.1	mg/kg	1.126	6.075	mg/kg	0.000608 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	13	mg/kg	1.56	15.411	mg/kg	0.000988 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.05	mg/kg	1.353	<0.0677	mg/kg	<0.00000677 %		<**LOD**
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		7.9	mg/kg	2.976	17.869	mg/kg	0.00179 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.4	mg/kg	2.554	0.776	mg/kg	0.0000776 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		18	mg/kg	1.785	24.421	mg/kg	0.00244 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		14	mg/kg	1.245	13.244	mg/kg	0.00132 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				0.29	mg/kg		0.22	mg/kg	0.000022 %	✓	
			201-469-6	83-32-9									
23		fluorene				0.34	mg/kg		0.258	mg/kg	0.0000258 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				2.2	mg/kg		1.672	mg/kg	0.000167 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.93	mg/kg		0.707	mg/kg	0.0000707 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				3.8	mg/kg		2.888	mg/kg	0.000289 %	✓	
			205-912-4	206-44-0									
27		pyrene				3	mg/kg		2.28	mg/kg	0.000228 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				1.4	mg/kg		1.064	mg/kg	0.000106 %	✓	
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				1.1	mg/kg		0.836	mg/kg	0.0000836 %	✓	
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				1.3	mg/kg		0.988	mg/kg	0.0000988 %	✓	
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				0.98	mg/kg		0.745	mg/kg	0.0000745 %	✓	
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				0.14	mg/kg		0.106	mg/kg	0.0000106 %	✓	
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				0.89	mg/kg		0.676	mg/kg	0.0000676 %	✓	
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				2.32	mg/kg		1.763	mg/kg	0.000176 %	✓	
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0122 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: S1-BH114-103-29/11/2022-1.70

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"
The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria.

The sample PASSES the Hazardous (Hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	1.1	3	5	6
2	LOI (loss on ignition)	%	5	-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.01	6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.1	1	-	-
5	Mineral oil (C10 to C40)	mg/kg	<10	500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	20	100	-	-
7	pH	pH	6.7	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg	<0.002	-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg	0.031	0.5	2	25
10	barium	mg/kg	<0.0005	20	100	300
11	cadmium	mg/kg	<0.0001	0.04	1	5
12	chromium	mg/kg	0.019	0.5	10	70
13	copper	mg/kg	0.0066	2	50	100
14	mercury	mg/kg	<5.0e-05	0.01	0.2	2
15	molybdenum	mg/kg	<0.0002	0.5	10	30
16	nickel	mg/kg	0.0012	0.4	10	40
17	lead	mg/kg	0.013	0.5	10	50
18	antimony	mg/kg	0.0009	0.06	0.7	5
19	selenium	mg/kg	0.0007	0.1	0.5	7
20	zinc	mg/kg	0.078	4	50	200
21	chloride	mg/kg	<10	800	15,000	25,000
22	fluoride	mg/kg	1.1	10	150	500
23	sulphate	mg/kg	<10	1,000	20,000	50,000
24	phenol index	mg/kg	<0.5	1	-	-
25	DOC (dissolved organic carbon)	mg/kg	110	500	800	1,000
26	TDS (total dissolved solids)	mg/kg	120	4,000	60,000	100,000

Key

	User supplied data
	Not applicable

Classification of sample: S1-BH105-1-30/11/2022-0.20

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH105-1-30/11/2022-0.20
Sample Depth:
0.20-0.30 m
Moisture content:
4.1%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 4.1% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.2	pH		8.2	pH	8.2 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5	mg/kg	1.32	6.331	mg/kg	0.000633 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		4.6	mg/kg	1.462	6.448	mg/kg	0.000645 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		30	mg/kg	1.126	32.392	mg/kg	0.00324 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	13	mg/kg	1.56	19.446	mg/kg	0.00125 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.05	mg/kg	1.353	0.0649	mg/kg	0.00000649 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18	mg/kg	2.976	51.376	mg/kg	0.00514 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.91	mg/kg	2.554	2.229	mg/kg	0.000223 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		6.5	mg/kg	1.785	11.128	mg/kg	0.00111 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		29	mg/kg	1.245	34.617	mg/kg	0.00346 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				0.032	mg/kg		0.0307	mg/kg	0.00000307 %	✓	
		601-020-00-8	200-753-7	71-43-2									
16		toluene				0.015	mg/kg		0.0144	mg/kg	0.00000144 %	✓	
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				0.53	mg/kg		0.508	mg/kg	0.0000508 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				0.47	mg/kg		0.451	mg/kg	0.0000451 %	✓	
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0174 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The risk phrase HP 3 (i) Flammable is unlikely to apply to this waste stream. This is due to the solid soil and natural moisture content of the sample. The concentration required to provide a flammability risk is likely to be >10,000mg. This risk of flammability from solid state soils <10,000mg/kg TPH is negligible and has been deemed non-hazardous if below this concentration. [Source: AGS Waste Classification for Soils 2019]

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 3.07e-06%)
toluene: (conc.: 1.44e-06%)

Classification of sample: S1-BH105-101-01/12/2022-1.70

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH105-101-01/12/2022-1.70
Sample Depth:
1.70-1.90 m
Moisture content:
14%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.1	pH		8.1	pH	8.1 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4.9	mg/kg	1.32	5.564	mg/kg	0.000556 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.1	mg/kg	1.142	0.0982	mg/kg	0.00000982 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		1.4	mg/kg	1.462	1.76	mg/kg	0.000176 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		35	mg/kg	1.126	33.889	mg/kg	0.00339 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	27	mg/kg	1.56	36.219	mg/kg	0.00232 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.26	mg/kg	1.353	0.303	mg/kg	0.0000303 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		8.1	mg/kg	2.976	20.733	mg/kg	0.00207 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.3	mg/kg	2.554	2.855	mg/kg	0.000286 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		2.9	mg/kg	1.785	4.452	mg/kg	0.000445 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		22	mg/kg	1.245	23.55	mg/kg	0.00235 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
15		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
16		toluene	601-021-00-3	203-625-9	108-88-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
17		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
18		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
20		naphthalene	601-052-00-2	202-049-5	91-20-3		1.6 mg/kg		1.376 mg/kg	0.000138 %	✓	
21		acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22		acenaphthene		201-469-6	83-32-9		0.3 mg/kg		0.258 mg/kg	0.0000258 %	✓	
23		fluorene		201-695-5	86-73-7		0.25 mg/kg		0.215 mg/kg	0.0000215 %	✓	
24		phenanthrene		201-581-5	85-01-8		1.1 mg/kg		0.946 mg/kg	0.0000946 %	✓	
25		anthracene		204-371-1	120-12-7		0.22 mg/kg		0.189 mg/kg	0.0000189 %	✓	
26		fluoranthene		205-912-4	206-44-0		0.65 mg/kg		0.559 mg/kg	0.0000559 %	✓	
27		pyrene		204-927-3	129-00-0		0.47 mg/kg		0.404 mg/kg	0.0000404 %	✓	
28		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.28 mg/kg		0.241 mg/kg	0.0000241 %	✓	
29		chrysene	601-048-00-0	205-923-4	218-01-9		0.41 mg/kg		0.353 mg/kg	0.0000353 %	✓	
30		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
31		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
32		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
33		benzo[ghi]perylene		205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
34		monohydric phenols			P1186		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
35		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.53 mg/kg		0.456 mg/kg	0.0000456 %	✓	
									Total:	0.0136 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH105-102-01/12/2022-2.70

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH105-102-01/12/2022-2.70
Sample Depth:
2.70-2.90 m
Moisture content:
16%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.5 pH		8.5 pH	8.5 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.7 mg/kg	1.32	7.431 mg/kg	0.000743 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4 mg/kg	5.719	<2.288 mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.11 mg/kg	1.142	0.106 mg/kg	0.0000106 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		2.4 mg/kg	1.462	2.946 mg/kg	0.000295 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		40 mg/kg	1.126	37.83 mg/kg	0.00378 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	37 mg/kg	1.56	48.479 mg/kg	0.00311 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.32 mg/kg	1.353	0.364 mg/kg	0.0000364 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		11 mg/kg	2.976	27.501 mg/kg	0.00275 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.8 mg/kg	2.554	3.861 mg/kg	0.000386 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		4.2 mg/kg	1.785	6.298 mg/kg	0.00063 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		30 mg/kg	1.245	31.367 mg/kg	0.00314 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		69 mg/kg		57.96 mg/kg	0.0058 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<**LOD**
		006-007-00-5											
20		naphthalene				2.8	mg/kg		2.352	mg/kg	0.000235 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				0.49	mg/kg		0.412	mg/kg	0.0000412 %	✓	
			201-469-6	83-32-9									
23		fluorene				0.39	mg/kg		0.328	mg/kg	0.0000328 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				1.2	mg/kg		1.008	mg/kg	0.000101 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.17	mg/kg		0.143	mg/kg	0.0000143 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				0.42	mg/kg		0.353	mg/kg	0.0000353 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.34	mg/kg		0.286	mg/kg	0.0000286 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.19	mg/kg		0.16	mg/kg	0.000016 %	✓	
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.28	mg/kg		0.235	mg/kg	0.0000235 %	✓	
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
34		monohydric phenols				1.4	mg/kg		1.176	mg/kg	0.000118 %	✓	
				P1186									
35		benzo[bk]fluoranthene				0.4	mg/kg		0.336	mg/kg	0.0000336 %	✓	
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0218 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The risk phrase HP 3 (i) Flammable is unlikely to apply to this waste stream. This is due to the solid soil and natural moisture content of the sample. The concentration required to provide a flammability risk is likely to be >10,000mg. This risk of flammability from solid state soils <10,000mg/kg TPH is negligible and has been deemed non-hazardous if below this concentration. [Source: AGS Waste Classification for Soils 2019]

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0058%)

Classification of sample: S1-BH105-104-01/12/2022-4.70

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH105-104-01/12/2022-4.70
Sample Depth:
4.70-4.90 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.3	pH		8.3	pH	8.3 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.4	mg/kg	1.32	8.109	mg/kg	0.000811 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.15	mg/kg	1.142	0.142	mg/kg	0.0000142 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		2.2	mg/kg	1.462	2.669	mg/kg	0.000267 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		46	mg/kg	1.126	42.986	mg/kg	0.0043 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	43	mg/kg	1.56	55.67	mg/kg	0.00357 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.39	mg/kg	1.353	0.438	mg/kg	0.0000438 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		13	mg/kg	2.976	32.114	mg/kg	0.00321 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2.1	mg/kg	2.554	4.451	mg/kg	0.000445 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		5.1	mg/kg	1.785	7.557	mg/kg	0.000756 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		37	mg/kg	1.245	38.225	mg/kg	0.00382 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				3.9	mg/kg		3.237	mg/kg	0.000324 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				0.24	mg/kg		0.199	mg/kg	0.0000199 %	✓	
			205-917-1	208-96-8									
22		acenaphthene				0.55	mg/kg		0.457	mg/kg	0.0000457 %	✓	
			201-469-6	83-32-9									
23		fluorene				0.41	mg/kg		0.34	mg/kg	0.000034 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				1.2	mg/kg		0.996	mg/kg	0.0000996 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.18	mg/kg		0.149	mg/kg	0.0000149 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				0.48	mg/kg		0.398	mg/kg	0.0000398 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.36	mg/kg		0.299	mg/kg	0.0000299 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.15	mg/kg		0.125	mg/kg	0.0000124 %	✓	
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.34	mg/kg		0.282	mg/kg	0.0000282 %	✓	
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				0.48	mg/kg		0.398	mg/kg	0.0000398 %	✓	
				P1186									
35		benzo[bk]fluoranthene				0.34	mg/kg		0.282	mg/kg	0.0000282 %	✓	
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0194 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH105-106-01/12/2022-6.70

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH105-106-01/12/2022-6.70
Sample Depth:
6.70-6.90 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.3	pH		8.3	pH	8.3 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		1.7	mg/kg	1.32	1.863	mg/kg	0.000186 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		1	mg/kg	1.462	1.213	mg/kg	0.000121 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		28	mg/kg	1.126	26.166	mg/kg	0.00262 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	14	mg/kg	1.56	18.125	mg/kg	0.00116 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.36	mg/kg	1.353	0.404	mg/kg	0.0000404 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		4.3	mg/kg	2.976	10.622	mg/kg	0.00106 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.1	mg/kg	2.554	2.332	mg/kg	0.000233 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		2.3	mg/kg	1.785	3.408	mg/kg	0.000341 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		19	mg/kg	1.245	19.629	mg/kg	0.00196 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzene	601-020-00-8	200-753-7	71-43-2		0.0026	mg/kg		0.0021	mg/kg	0.000000216 %	✓	
16		toluene	601-021-00-3	203-625-9	108-88-3		0.0024	mg/kg		0.0019	mg/kg	0.000000199 %	✓	
17		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
18		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<**LOD**
20		naphthalene	601-052-00-2	202-049-5	91-20-3		0.55	mg/kg		0.457	mg/kg	0.0000457 %	✓	
21		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
22		acenaphthene		201-469-6	83-32-9		0.29	mg/kg		0.241	mg/kg	0.0000241 %	✓	
23		fluorene		201-695-5	86-73-7		0.16	mg/kg		0.133	mg/kg	0.0000133 %	✓	
24		phenanthrene		201-581-5	85-01-8		0.45	mg/kg		0.374	mg/kg	0.0000374 %	✓	
25		anthracene		204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
26		fluoranthene		205-912-4	206-44-0		0.13	mg/kg		0.108	mg/kg	0.0000108 %	✓	
27		pyrene		204-927-3	129-00-0		0.15	mg/kg		0.125	mg/kg	0.0000124 %	✓	
28		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
29		chrysene	601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
30		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
31		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
32		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
33		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
34		monohydric phenols			P1186		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
35		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
											Total:	0.00943 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The risk phrase HP 3 (i) Flammable is unlikely to apply to this waste stream. This is due to the solid soil and natural moisture content of the sample. The concentration required to provide a flammability risk is likely to be >10,000mg. This risk of flammability from solid state soils <10,000mg/kg TPH is negligible and has been deemed non-hazardous if below this concentration. [Source: AGS Waste Classification for Soils 2019]

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 2.16e-07%)
toluene: (conc.: 1.99e-07%)

Classification of sample: S1-BH107

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH107
Sample Depth:
0.30-0.40 m
Moisture content:
6.3%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 6.3% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.2	pH		8.2	pH	8.2 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9	mg/kg	1.32	11.134	mg/kg	0.00111 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2	mg/kg	1.142	0.214	mg/kg	0.0000214 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		4.1	mg/kg	1.462	5.615	mg/kg	0.000561 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		36	mg/kg	1.126	37.978	mg/kg	0.0038 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	35	mg/kg	1.56	51.154	mg/kg	0.00328 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.15	mg/kg	1.353	0.19	mg/kg	0.000019 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		8.7	mg/kg	2.976	24.262	mg/kg	0.00243 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2.3	mg/kg	2.554	5.504	mg/kg	0.00055 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		7.1	mg/kg	1.785	11.876	mg/kg	0.00119 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		32	mg/kg	1.245	37.322	mg/kg	0.00373 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				0.2	mg/kg		0.187	mg/kg	0.0000187 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				0.14	mg/kg		0.131	mg/kg	0.0000131 %	✓	
			205-917-1	208-96-8									
22		acenaphthene				0.14	mg/kg		0.131	mg/kg	0.0000131 %	✓	
			201-469-6	83-32-9									
23		fluorene				0.55	mg/kg		0.515	mg/kg	0.0000515 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				2	mg/kg		1.874	mg/kg	0.000187 %	✓	
			201-581-5	85-01-8									
25		anthracene				1.8	mg/kg		1.687	mg/kg	0.000169 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				4.1	mg/kg		3.842	mg/kg	0.000384 %	✓	
			205-912-4	206-44-0									
27		pyrene				4.1	mg/kg		3.842	mg/kg	0.000384 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				4.4	mg/kg		4.123	mg/kg	0.000412 %	✓	
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				4.5	mg/kg		4.217	mg/kg	0.000422 %	✓	
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				4.5	mg/kg		4.217	mg/kg	0.000422 %	✓	
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				4.2	mg/kg		3.935	mg/kg	0.000394 %	✓	
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				4.2	mg/kg		3.935	mg/kg	0.000394 %	✓	
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				4.7	mg/kg		4.404	mg/kg	0.00044 %	✓	
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				9.7	mg/kg		9.089	mg/kg	0.000909 %	✓	
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0227 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: S1-BH107

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"
The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample FAILS the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria.

The sample FAILS the Hazardous (Hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	31	3	5	6
2	LOI (loss on ignition)	%	16	-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.01	6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.1	1	-	-
5	Mineral oil (C10 to C40)	mg/kg	<10	500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<2	100	-	-
7	pH	pH	9.7	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg	<0.002	-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg	0.0053	0.5	2	25
10	barium	mg/kg	2.4	20	100	300
11	cadmium	mg/kg	<0.0001	0.04	1	5
12	chromium	mg/kg	<0.0005	0.5	10	70
13	copper	mg/kg	0.0083	2	50	100
14	mercury	mg/kg	<5.0e-05	0.01	0.2	2
15	molybdenum	mg/kg	0.048	0.5	10	30
16	nickel	mg/kg	<0.0005	0.4	10	40
17	lead	mg/kg	<0.0005	0.5	10	50
18	antimony	mg/kg	0.0086	0.06	0.7	5
19	selenium	mg/kg	0.0061	0.1	0.5	7
20	zinc	mg/kg	0.005	4	50	200
21	chloride	mg/kg	53	800	15,000	25,000
22	fluoride	mg/kg	1.7	10	150	500
23	sulphate	mg/kg	71	1,000	20,000	50,000
24	phenol index	mg/kg	<0.5	1	-	-
25	DOC (dissolved organic carbon)	mg/kg	<50	500	800	1,000
26	TDS (total dissolved solids)	mg/kg	1300	4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Inert WAC criteria fail
	SNRHW WAC criteria fail
	Hazardous WAC criteria fail

Classification of sample: S1-BH105-116-05/12/2022-9.6

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH105-116-05/12/2022-9.6
Sample Depth:
9.6-9.7 m
Moisture content:
14%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		5.9 pH		5.9 pH	5.9 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.6 mg/kg	1.32	8.63 mg/kg	0.000863 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.43 mg/kg	5.719	2.115 mg/kg	0.000211 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14 mg/kg	1.462	17.597 mg/kg	0.00176 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		22 mg/kg	1.126	21.302 mg/kg	0.00213 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	18 mg/kg	1.56	24.146 mg/kg	0.00155 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23 mg/kg	2.976	58.871 mg/kg	0.00589 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.61 mg/kg	2.554	1.34 mg/kg	0.000134 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		12 mg/kg	1.785	18.423 mg/kg	0.00184 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		62 mg/kg	1.245	66.368 mg/kg	0.00664 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				2.5	mg/kg		2.15	mg/kg	0.000215 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0226 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH107-101-06/12/2022-1.0

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH107-101-06/12/2022-1.0
Sample Depth:
1.0-1.1 m
Moisture content:
15%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.5 pH		8.5 pH	8.5 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	12.345 mg/kg	0.00123 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4 mg/kg	5.719	<2.288 mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.19 mg/kg	1.142	0.184 mg/kg	0.0000184 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		8.6 mg/kg	1.462	10.684 mg/kg	0.00107 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		35 mg/kg	1.126	33.495 mg/kg	0.00335 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	19 mg/kg	1.56	25.191 mg/kg	0.00161 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.05 mg/kg	1.353	0.0575 mg/kg	0.00000575 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		25 mg/kg	2.976	63.246 mg/kg	0.00632 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.92 mg/kg	2.554	1.997 mg/kg	0.0002 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		12 mg/kg	1.785	18.209 mg/kg	0.00182 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		76 mg/kg	1.245	80.409 mg/kg	0.00804 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
16		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
17		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
18		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
20		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
21		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
22		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24		phenanthrene		201-581-5	85-01-8		0.28	mg/kg		0.238	mg/kg	0.0000238 %	✓	
25		anthracene		204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		fluoranthene		205-912-4	206-44-0		0.25	mg/kg		0.213	mg/kg	0.0000212 %	✓	
27		pyrene		204-927-3	129-00-0		0.18	mg/kg		0.153	mg/kg	0.0000153 %	✓	
28		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
29		chrysene	601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
30		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
31		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
32		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
33		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
34		monohydric phenols			P1186		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
35		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
											Total:	0.0253 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH107-105-06/12/2022-5.0

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH107-105-06/12/2022-5.0
Sample Depth:
5.0-5.1 m
Moisture content:
2.8%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 2.8% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.2	pH		8.2	pH	8.2 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.9	mg/kg	1.32	12.705	mg/kg	0.00127 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1	mg/kg	5.719	5.559	mg/kg	0.000556 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.15	mg/kg	1.142	0.167	mg/kg	0.0000167 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		33	mg/kg	1.462	46.881	mg/kg	0.00469 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		28	mg/kg	1.126	30.642	mg/kg	0.00306 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	23	mg/kg	1.56	34.871	mg/kg	0.00224 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.05	mg/kg	1.353	<0.0677	mg/kg	<0.00000677 %		<LOD
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		37	mg/kg	2.976	107.038	mg/kg	0.0107 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.1	mg/kg	2.554	2.731	mg/kg	0.000273 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		41	mg/kg	1.785	71.143	mg/kg	0.00711 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		77	mg/kg	1.245	93.159	mg/kg	0.00932 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0406 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH109-105-07/12/2022-3.70

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH109-105-07/12/2022-3.70
Sample Depth:
3.70-3.90 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.7	pH		7.7	pH	7.7 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6	mg/kg	1.32	6.575	mg/kg	0.000658 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.16	mg/kg	1.142	0.152	mg/kg	0.0000152 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		1.7	mg/kg	1.462	2.062	mg/kg	0.000206 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		35	mg/kg	1.126	32.707	mg/kg	0.00327 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	53	mg/kg	1.56	68.616	mg/kg	0.0044 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.12	mg/kg	1.353	0.135	mg/kg	0.0000135 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		11	mg/kg	2.976	27.173	mg/kg	0.00272 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2	mg/kg	2.554	4.239	mg/kg	0.000424 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		3.3	mg/kg	1.785	4.89	mg/kg	0.000489 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		32	mg/kg	1.245	33.06	mg/kg	0.00331 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<**LOD**
		006-007-00-5											
20		naphthalene				17	mg/kg		14.11	mg/kg	0.00141 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				1.5	mg/kg		1.245	mg/kg	0.000125 %	✓	
			201-469-6	83-32-9									
23		fluorene				0.91	mg/kg		0.755	mg/kg	0.0000755 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				1.9	mg/kg		1.577	mg/kg	0.000158 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.5	mg/kg		0.415	mg/kg	0.0000415 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				0.63	mg/kg		0.523	mg/kg	0.0000523 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.46	mg/kg		0.382	mg/kg	0.0000382 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
34		monohydric phenols				0.63	mg/kg		0.523	mg/kg	0.0000523 %	✓	
				P1186									
35		benzo[bk]fluoranthene				0.53	mg/kg		0.44	mg/kg	0.000044 %	✓	
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.019 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: S1-BH109-105-07/12/2022-3.70

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"
The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample FAILS the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria.

The sample FAILS the Hazardous (Hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	48	3	5	6
2	LOI (loss on ignition)	%	33	-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.01	6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.1	1	-	-
5	Mineral oil (C10 to C40)	mg/kg	110	500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	28	100	-	-
7	pH	pH	7.7	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg	0.008	-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg	0.015	0.5	2	25
10	barium	mg/kg	0.24	20	100	300
11	cadmium	mg/kg	<0.0001	0.04	1	5
12	chromium	mg/kg	<0.0005	0.5	10	70
13	copper	mg/kg	0.0006	2	50	100
14	mercury	mg/kg	<5.0e-05	0.01	0.2	2
15	molybdenum	mg/kg	0.018	0.5	10	30
16	nickel	mg/kg	0.016	0.4	10	40
17	lead	mg/kg	<0.0005	0.5	10	50
18	antimony	mg/kg	0.063	0.06	0.7	5
19	selenium	mg/kg	0.036	0.1	0.5	7
20	zinc	mg/kg	0.037	4	50	200
21	chloride	mg/kg	<10	800	15,000	25,000
22	fluoride	mg/kg	1.8	10	150	500
23	sulphate	mg/kg	70	1,000	20,000	50,000
24	phenol index	mg/kg	<0.5	1	-	-
25	DOC (dissolved organic carbon)	mg/kg	<50	500	800	1,000
26	TDS (total dissolved solids)	mg/kg	1300	4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Inert WAC criteria fail
	SNRHW WAC criteria fail
	Hazardous WAC criteria fail

Classification of sample: S1-BH109-1-06/12/2022-0.20

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH109-1-06/12/2022-0.20
Sample Depth:
0.20-0.30 m
Moisture content:
11%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		9.4	pH		9.4	pH	9.4 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		3.9	mg/kg	1.32	4.583	mg/kg	0.000458 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		4.8	mg/kg	1.462	6.244	mg/kg	0.000624 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		22	mg/kg	1.126	22.045	mg/kg	0.0022 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	10	mg/kg	1.56	13.882	mg/kg	0.00089 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.05	mg/kg	1.353	<0.0677	mg/kg	<0.00000677 %		<**LOD**
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		9.3	mg/kg	2.976	24.635	mg/kg	0.00246 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.41	mg/kg	2.554	0.932	mg/kg	0.0000932 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		3.5	mg/kg	1.785	5.561	mg/kg	0.000556 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		31	mg/kg	1.245	34.342	mg/kg	0.00343 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				9	mg/kg		8.01	mg/kg	0.000801 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				0.35	mg/kg		0.312	mg/kg	0.0000311 %	✓	
			201-469-6	83-32-9									
23		fluorene				0.27	mg/kg		0.24	mg/kg	0.000024 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				1.9	mg/kg		1.691	mg/kg	0.000169 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.24	mg/kg		0.214	mg/kg	0.0000214 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				0.92	mg/kg		0.819	mg/kg	0.0000819 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.55	mg/kg		0.49	mg/kg	0.000049 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0135 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH109-4-06/12/2022-0.70

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH109-4-06/12/2022-0.70
Sample Depth:
0.70-0.80 m
Moisture content:
7.3%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 7.3% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.2 pH		8.2 pH	8.2 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		3.6 mg/kg	1.32	4.406 mg/kg	0.000441 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.42 mg/kg	5.719	2.227 mg/kg	0.000223 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		2.2 mg/kg	1.462	2.981 mg/kg	0.000298 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		20 mg/kg	1.126	20.874 mg/kg	0.00209 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	12 mg/kg	1.56	17.351 mg/kg	0.00111 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<**LOD**
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		15 mg/kg	2.976	41.385 mg/kg	0.00414 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.8 mg/kg	2.554	1.894 mg/kg	0.000189 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		3.2 mg/kg	1.785	5.296 mg/kg	0.00053 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		41 mg/kg	1.245	47.308 mg/kg	0.00473 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				2.1	mg/kg		1.947	mg/kg	0.000195 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0153 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH109-111-08/12/2022-6.70

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH109-111-08/12/2022-6.70
Sample Depth:
6.70-6.90 m
Moisture content:
11%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		7	pH		7	pH	7pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15	mg/kg	1.32	17.626	mg/kg	0.00176 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.61	mg/kg	5.719	3.105	mg/kg	0.00031 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.21	mg/kg	1.142	0.214	mg/kg	0.0000214 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		4.1	mg/kg	1.462	5.333	mg/kg	0.000533 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		48	mg/kg	1.126	48.098	mg/kg	0.00481 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	44	mg/kg	1.56	61.082	mg/kg	0.00392 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.3	mg/kg	1.353	0.361	mg/kg	0.0000361 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20	mg/kg	2.976	52.978	mg/kg	0.0053 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		3.3	mg/kg	2.554	7.501	mg/kg	0.00075 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		6.2	mg/kg	1.785	9.851	mg/kg	0.000985 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		58	mg/kg	1.245	64.252	mg/kg	0.00643 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				0.28	mg/kg		0.249	mg/kg	0.0000249 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0262 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH101-2-09/12/2022-0.30

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH101-2-09/12/2022-0.30
Sample Depth:
0.30-0.40 m
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		6.9 pH		6.9 pH	6.9 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14 mg/kg	1.32	16.082 mg/kg	0.00161 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.59 mg/kg	5.719	2.936 mg/kg	0.000294 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.38 mg/kg	1.142	0.378 mg/kg	0.0000378 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		5 mg/kg	1.462	6.358 mg/kg	0.000636 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		71 mg/kg	1.126	69.546 mg/kg	0.00695 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	62 mg/kg	1.56	84.136 mg/kg	0.00539 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.1 mg/kg	1.353	0.118 mg/kg	0.0000118 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		38 mg/kg	2.976	98.395 mg/kg	0.00984 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.5 mg/kg	2.554	3.333 mg/kg	0.000333 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		8.1 mg/kg	1.785	12.58 mg/kg	0.00126 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		240 mg/kg	1.245	259.896 mg/kg	0.026 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				1.1	mg/kg		0.957	mg/kg	0.0000957 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				0.2	mg/kg		0.174	mg/kg	0.0000174 %	✓	
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0538 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH101-5-09/12/2022-1.00

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH101-5-09/12/2022-1.00
Sample Depth:
1.00-1.10 m
Moisture content:
10%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 10% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		6.9 pH		6.9 pH	6.9 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		18 mg/kg	1.32	21.389 mg/kg	0.00214 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.46 mg/kg	5.719	2.368 mg/kg	0.000237 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.62 mg/kg	1.142	0.637 mg/kg	0.0000637 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		6.3 mg/kg	1.462	8.287 mg/kg	0.000829 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		87 mg/kg	1.126	88.157 mg/kg	0.00882 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	66 mg/kg	1.56	92.653 mg/kg	0.00594 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.08 mg/kg	1.353	0.0975 mg/kg	0.00000975 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		31 mg/kg	2.976	83.038 mg/kg	0.0083 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.6 mg/kg	2.554	3.678 mg/kg	0.000368 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		7.6 mg/kg	1.785	12.211 mg/kg	0.00122 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		280 mg/kg	1.245	313.668 mg/kg	0.0314 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				0.86	mg/kg		0.774	mg/kg	0.0000774 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				0.29	mg/kg		0.261	mg/kg	0.0000261 %	✓	
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0608 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH109-112-12/12/2022-8.40

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH109-112-12/12/2022-8.40
Sample Depth:
8.40-8.60 m
Moisture content:
11%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.7	pH		7.7	pH	7.7 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		2.7	mg/kg	1.32	3.173	mg/kg	0.000317 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.14	mg/kg	1.142	0.142	mg/kg	0.0000142 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14	mg/kg	1.462	18.211	mg/kg	0.00182 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		31	mg/kg	1.126	31.063	mg/kg	0.00311 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	15	mg/kg	1.56	20.824	mg/kg	0.00134 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.05	mg/kg	1.353	<0.0677	mg/kg	<0.00000677 %		<**LOD**
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		28	mg/kg	2.976	74.169	mg/kg	0.00742 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.62	mg/kg	2.554	1.409	mg/kg	0.000141 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		9	mg/kg	1.785	14.299	mg/kg	0.00143 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		76	mg/kg	1.245	84.192	mg/kg	0.00842 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<**LOD**
		006-007-00-5											
20		naphthalene				0.17	mg/kg		0.151	mg/kg	0.0000151 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				0.23	mg/kg		0.205	mg/kg	0.0000205 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.11	mg/kg		0.0979	mg/kg	0.00000979 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				0.24	mg/kg		0.214	mg/kg	0.0000214 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.18	mg/kg		0.16	mg/kg	0.000016 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0256 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH116-2-12/12/2022-0.20

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH116-2-12/12/2022-0.20
Sample Depth:
0.20-0.30 m
Moisture content:
8.4%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 8.4% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.9 pH		7.9 pH	7.9 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		26 mg/kg	1.32	31.445 mg/kg	0.00314 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4 mg/kg	5.719	<2.288 mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.13 mg/kg	1.142	0.136 mg/kg	0.0000136 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		3.8 mg/kg	1.462	5.087 mg/kg	0.000509 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		65 mg/kg	1.126	67.035 mg/kg	0.0067 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	54 mg/kg	1.56	77.155 mg/kg	0.00495 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.38 mg/kg	1.353	0.471 mg/kg	0.0000471 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		26 mg/kg	2.976	70.883 mg/kg	0.00709 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		4.2 mg/kg	2.554	9.825 mg/kg	0.000983 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		6.4 mg/kg	1.785	10.465 mg/kg	0.00105 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		50 mg/kg	1.245	57.008 mg/kg	0.0057 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				0.27	mg/kg		0.247	mg/kg	0.0000247 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				0.21	mg/kg		0.192	mg/kg	0.0000192 %	✓	
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				0.13	mg/kg		0.119	mg/kg	0.0000119 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.14	mg/kg		0.128	mg/kg	0.0000128 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0318 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH116-5-12/12/2022-0.90

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH116-5-12/12/2022-0.90
Sample Depth:
0.90-1.00 m
Moisture content:
4.1%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 4.1% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.1	pH		7.1	pH	7.1 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5.5	mg/kg	1.32	6.964	mg/kg	0.000696 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		4.9	mg/kg	5.719	26.875	mg/kg	0.00269 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.11	mg/kg	1.142	0.121	mg/kg	0.0000121 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		3.4	mg/kg	1.462	4.766	mg/kg	0.000477 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		41	mg/kg	1.126	44.269	mg/kg	0.00443 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	24	mg/kg	1.56	35.901	mg/kg	0.0023 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.11	mg/kg	1.353	0.143	mg/kg	0.0000143 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		25	mg/kg	2.976	71.356	mg/kg	0.00714 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.7	mg/kg	2.554	4.164	mg/kg	0.000416 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		4.1	mg/kg	1.785	7.019	mg/kg	0.000702 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		56	mg/kg	1.245	66.846	mg/kg	0.00668 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				0.23	mg/kg		0.221	mg/kg	0.0000221 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				0.18	mg/kg		0.173	mg/kg	0.0000173 %	✓	
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				0.17	mg/kg		0.163	mg/kg	0.0000163 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.12	mg/kg		0.115	mg/kg	0.0000115 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.027 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH101-102-13/12/2022-2.70

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH101-102-13/12/2022-2.70
Sample Depth:
2.70-3.00 m
Moisture content:
8.5%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 8.5% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.8	pH		7.8	pH	7.8 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		21	mg/kg	1.32	25.37	mg/kg	0.00254 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.47	mg/kg	5.719	2.46	mg/kg	0.000246 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.78	mg/kg	1.142	0.815	mg/kg	0.0000815 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		7.2	mg/kg	1.462	9.629	mg/kg	0.000963 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		120	mg/kg	1.126	123.623	mg/kg	0.0124 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	150	mg/kg	1.56	214.085	mg/kg	0.0137 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.11	mg/kg	1.353	0.136	mg/kg	0.0000136 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		34	mg/kg	2.976	92.592	mg/kg	0.00926 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2.8	mg/kg	2.554	6.543	mg/kg	0.000654 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		9.5	mg/kg	1.785	15.518	mg/kg	0.00155 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		350	mg/kg	1.245	398.62	mg/kg	0.0399 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				0.93	mg/kg		0.851	mg/kg	0.0000851 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				0.52	mg/kg		0.476	mg/kg	0.0000476 %	✓	
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				0.21	mg/kg		0.192	mg/kg	0.0000192 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.17	mg/kg		0.156	mg/kg	0.0000156 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0828 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH101-105-13/12/2022-4.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH101-105-13/12/2022-4.50
Sample Depth:
4.50-4.70 m
Moisture content:
7%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 7% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.9	pH		7.9	pH	7.9 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.1	mg/kg	1.32	8.718	mg/kg	0.000872 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.5	mg/kg	5.719	2.659	mg/kg	0.000266 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.18	mg/kg	1.142	0.191	mg/kg	0.0000191 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		4.9	mg/kg	1.462	6.66	mg/kg	0.000666 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		52	mg/kg	1.126	54.448	mg/kg	0.00544 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	27	mg/kg	1.56	39.167	mg/kg	0.00251 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.1	mg/kg	1.353	0.126	mg/kg	0.0000126 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		29	mg/kg	2.976	80.27	mg/kg	0.00803 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.5	mg/kg	2.554	3.563	mg/kg	0.000356 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		6	mg/kg	1.785	9.961	mg/kg	0.000996 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		83	mg/kg	1.245	96.079	mg/kg	0.00961 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				0.25	mg/kg		0.233	mg/kg	0.0000233 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0302 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH101-109-13/12/2022-7.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH101-109-13/12/2022-7.50
Sample Depth:
7.50-7.70 m
Moisture content:
8.6%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 8.6% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.7	pH		7.7	pH	7.7 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12	mg/kg	1.32	14.481	mg/kg	0.00145 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.42	mg/kg	5.719	2.195	mg/kg	0.00022 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.24	mg/kg	1.142	0.251	mg/kg	0.0000251 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		3.6	mg/kg	1.462	4.809	mg/kg	0.000481 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		61	mg/kg	1.126	62.773	mg/kg	0.00628 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	39	mg/kg	1.56	55.601	mg/kg	0.00356 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.15	mg/kg	1.353	0.186	mg/kg	0.0000186 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		25	mg/kg	2.976	68.008	mg/kg	0.0068 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2.3	mg/kg	2.554	5.369	mg/kg	0.000537 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		5	mg/kg	1.785	8.158	mg/kg	0.000816 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		63	mg/kg	1.245	71.673	mg/kg	0.00717 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<**LOD**
		006-007-00-5											
20		naphthalene				0.93	mg/kg		0.85	mg/kg	0.000085 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				0.18	mg/kg		0.165	mg/kg	0.0000165 %	✓	
			201-469-6	83-32-9									
23		fluorene				0.16	mg/kg		0.146	mg/kg	0.0000146 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				0.7	mg/kg		0.64	mg/kg	0.000064 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.13	mg/kg		0.119	mg/kg	0.0000119 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				0.51	mg/kg		0.466	mg/kg	0.0000466 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.37	mg/kg		0.338	mg/kg	0.0000338 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.2	mg/kg		0.183	mg/kg	0.0000183 %	✓	
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.21	mg/kg		0.192	mg/kg	0.0000192 %	✓	
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
				P1186									
35		benzo[bk]fluoranthene				0.36	mg/kg		0.329	mg/kg	0.0000329 %	✓	
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.029 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH101-113-13/12/2022-9.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH101-113-13/12/2022-9.50
Sample Depth:
9.50-9.70 m
Moisture content:
7.2%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 7.2% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8	pH		8	pH	8pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.8	mg/kg	1.32	8.332	mg/kg	0.000833 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2	mg/kg	1.142	0.212	mg/kg	0.0000212 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		4.3	mg/kg	1.462	5.832	mg/kg	0.000583 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		51	mg/kg	1.126	53.286	mg/kg	0.00533 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	42	mg/kg	1.56	60.795	mg/kg	0.0039 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.11	mg/kg	1.353	0.138	mg/kg	0.0000138 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		31	mg/kg	2.976	85.621	mg/kg	0.00856 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		3.2	mg/kg	2.554	7.584	mg/kg	0.000758 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		5.7	mg/kg	1.785	9.443	mg/kg	0.000944 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		83	mg/kg	1.245	95.873	mg/kg	0.00959 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				8	mg/kg		7.424	mg/kg	0.000742 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				1.4	mg/kg		1.299	mg/kg	0.00013 %	✓	
			201-469-6	83-32-9									
23		fluorene				0.7	mg/kg		0.65	mg/kg	0.000065 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				1.4	mg/kg		1.299	mg/kg	0.00013 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.35	mg/kg		0.325	mg/kg	0.0000325 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				0.42	mg/kg		0.39	mg/kg	0.000039 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.24	mg/kg		0.223	mg/kg	0.0000223 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0332 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH116-104-13/12/2022-2.70

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH116-104-13/12/2022-2.70
Sample Depth:
2.70-2.80 m
Moisture content:
7.1%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 7.1% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.3	pH		7.3	pH	7.3 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.3	mg/kg	1.32	8.954	mg/kg	0.000895 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.12	mg/kg	1.142	0.127	mg/kg	0.0000127 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		2	mg/kg	1.462	2.716	mg/kg	0.000272 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		32	mg/kg	1.126	33.47	mg/kg	0.00335 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	22	mg/kg	1.56	31.88	mg/kg	0.00204 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.11	mg/kg	1.353	0.138	mg/kg	0.0000138 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		16	mg/kg	2.976	44.239	mg/kg	0.00442 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.9	mg/kg	2.554	4.508	mg/kg	0.000451 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		3.4	mg/kg	1.785	5.639	mg/kg	0.000564 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		58	mg/kg	1.245	67.068	mg/kg	0.00671 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				1.4	mg/kg		1.301	mg/kg	0.00013 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				0.12	mg/kg		0.111	mg/kg	0.0000111 %	✓	
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				0.28	mg/kg		0.26	mg/kg	0.000026 %	✓	
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0205 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH116-108-13/12/2022-4.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH116-108-13/12/2022-4.50
Sample Depth:
4.50-4.65 m
Moisture content:
11%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		6.5 pH		6.5 pH	6.5 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.3 mg/kg	1.32	8.578 mg/kg	0.000858 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.52 mg/kg	5.719	2.647 mg/kg	0.000265 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		4.3 mg/kg	1.462	5.593 mg/kg	0.000559 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		33 mg/kg	1.126	33.067 mg/kg	0.00331 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	18 mg/kg	1.56	24.988 mg/kg	0.0016 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.11 mg/kg	1.353	0.133 mg/kg	0.0000133 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18 mg/kg	2.976	47.68 mg/kg	0.00477 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.5 mg/kg	2.554	3.409 mg/kg	0.000341 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		5.9 mg/kg	1.785	9.374 mg/kg	0.000937 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		52 mg/kg	1.245	57.605 mg/kg	0.00576 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				0.85	mg/kg		0.757	mg/kg	0.0000757 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				0.39	mg/kg		0.347	mg/kg	0.0000347 %	✓	
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				0.3	mg/kg		0.267	mg/kg	0.0000267 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.28	mg/kg		0.249	mg/kg	0.0000249 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0199 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH116-110-13/12/2022-5.10

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH116-110-13/12/2022-5.10
Sample Depth:
5.10-5.20 m
Moisture content:
22%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		6.5 pH		6.5 pH	6.5 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.1 mg/kg	1.32	6.282 mg/kg	0.000628 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.52 mg/kg	5.719	2.32 mg/kg	0.000232 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		6.8 mg/kg	1.462	7.752 mg/kg	0.000775 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		5.8 mg/kg	1.126	5.094 mg/kg	0.000509 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	7.3 mg/kg	1.56	8.882 mg/kg	0.000569 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<**LOD**
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		3.1 mg/kg	2.976	7.197 mg/kg	0.00072 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.44 mg/kg	2.554	0.876 mg/kg	0.0000876 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		9.6 mg/kg	1.785	13.367 mg/kg	0.00134 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		10 mg/kg	1.245	9.709 mg/kg	0.000971 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
15		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
16		toluene	601-021-00-3	203-625-9	108-88-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
17		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
18		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
20		naphthalene	601-052-00-2	202-049-5	91-20-3		0.35 mg/kg		0.273 mg/kg	0.0000273 %	✓	
21		acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22		acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23		fluorene		201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
24		phenanthrene		201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
25		anthracene		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26		fluoranthene		205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
27		pyrene		204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
28		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
29		chrysene	601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
30		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
31		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
32		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
33		benzo[ghi]perylene		205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
34		monohydric phenols			P1186		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
35		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
									Total:	0.00724 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH112

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH112
Sample Depth:
0.50-0.60 m
Moisture content:
8.4%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 8.4% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8	pH		8	pH	8pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.8	mg/kg	1.32	9.433	mg/kg	0.000943 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.57	mg/kg	5.719	2.986	mg/kg	0.000299 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.19	mg/kg	1.142	0.199	mg/kg	0.0000199 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		3.8	mg/kg	1.462	5.087	mg/kg	0.000509 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		36	mg/kg	1.126	37.127	mg/kg	0.00371 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	24	mg/kg	1.56	34.291	mg/kg	0.0022 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.1	mg/kg	1.353	0.124	mg/kg	0.0000124 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17	mg/kg	2.976	46.346	mg/kg	0.00463 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.7	mg/kg	2.554	3.977	mg/kg	0.000398 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		5.9	mg/kg	1.785	9.648	mg/kg	0.000965 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		94	mg/kg	1.245	107.175	mg/kg	0.0107 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				1.3	mg/kg		1.191	mg/kg	0.000119 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				0.21	mg/kg		0.192	mg/kg	0.0000192 %	✓	
			201-469-6	83-32-9									
23		fluorene				0.15	mg/kg		0.137	mg/kg	0.0000137 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				0.66	mg/kg		0.605	mg/kg	0.0000605 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.11	mg/kg		0.101	mg/kg	0.0000101 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				0.33	mg/kg		0.302	mg/kg	0.0000302 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.2	mg/kg		0.183	mg/kg	0.0000183 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.026 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: S1-BH112

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"
The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample FAILS the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria.

The sample FAILS the Hazardous (Hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	24	3	5	6
2	LOI (loss on ignition)	%	4	-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.01	6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.1	1	-	-
5	Mineral oil (C10 to C40)	mg/kg	60	500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	2.9	100	-	-
7	pH	pH	8	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg	0.005	-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg	0.005	0.5	2	25
10	barium	mg/kg	0.26	20	100	300
11	cadmium	mg/kg	<0.0001	0.04	1	5
12	chromium	mg/kg	<0.0005	0.5	10	70
13	copper	mg/kg	0.0012	2	50	100
14	mercury	mg/kg	<5.0e-05	0.01	0.2	2
15	molybdenum	mg/kg	0.022	0.5	10	30
16	nickel	mg/kg	0.0007	0.4	10	40
17	lead	mg/kg	<0.0005	0.5	10	50
18	antimony	mg/kg	0.0072	0.06	0.7	5
19	selenium	mg/kg	0.021	0.1	0.5	7
20	zinc	mg/kg	<0.0025	4	50	200
21	chloride	mg/kg	<10	800	15,000	25,000
22	fluoride	mg/kg	2.8	10	150	500
23	sulphate	mg/kg	150	1,000	20,000	50,000
24	phenol index	mg/kg	<0.5	1	-	-
25	DOC (dissolved organic carbon)	mg/kg	<50	500	800	1,000
26	TDS (total dissolved solids)	mg/kg	940	4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Inert WAC criteria fail
	SNRHW WAC criteria fail
	Hazardous WAC criteria fail

Classification of sample: S1-BH112-102-15/12/2022-1.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH112-102-15/12/2022-1.50
Sample Depth:
1.50-1.60 m
Moisture content:
9.5%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 9.5% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.3	pH		8.3	pH	8.3 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.8	mg/kg	1.32	10.515	mg/kg	0.00105 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.11	mg/kg	1.142	0.114	mg/kg	0.0000114 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		3.5	mg/kg	1.462	4.629	mg/kg	0.000463 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		38	mg/kg	1.126	38.719	mg/kg	0.00387 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	19	mg/kg	1.56	26.821	mg/kg	0.00172 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.1	mg/kg	1.353	0.122	mg/kg	0.0000122 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27	mg/kg	2.976	72.725	mg/kg	0.00727 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.7	mg/kg	2.554	3.929	mg/kg	0.000393 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		5.2	mg/kg	1.785	8.401	mg/kg	0.00084 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		47	mg/kg	1.245	52.944	mg/kg	0.00529 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				0.022	mg/kg		0.0199	mg/kg	0.00000199 %	✓	
		601-020-00-8	200-753-7	71-43-2									
16		toluene				0.009	mg/kg		0.0081	mg/kg	0.000000815 %	✓	
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				0.42	mg/kg		0.38	mg/kg	0.000038 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				0.17	mg/kg		0.154	mg/kg	0.0000154 %	✓	
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0226 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The risk phrase HP 3 (i) Flammable is unlikely to apply to this waste stream. This is due to the solid soil and natural moisture content of the sample. The concentration required to provide a flammability risk is likely to be >10,000mg. This risk of flammability from solid state soils <10,000mg/kg TPH is negligible and has been deemed non-hazardous if below this concentration. [Source: AGS Waste Classification for Soils 2019]

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 1.99e-06%)
toluene: (conc.: 8.15e-07%)

Classification of sample: S1-BH112-106-15/12/2022-3.70

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH112-106-15/12/2022-3.70
Sample Depth:
3.70-3.80 m
Moisture content:
24%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 24% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		6.5 pH		6.5 pH	6.5 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15 mg/kg	1.32	15.052 mg/kg	0.00151 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.93 mg/kg	5.719	4.042 mg/kg	0.000404 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23 mg/kg	1.462	25.548 mg/kg	0.00255 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		27 mg/kg	1.126	23.103 mg/kg	0.00231 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	19 mg/kg	1.56	22.524 mg/kg	0.00144 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<**LOD**
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		13 mg/kg	2.976	29.405 mg/kg	0.00294 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.7 mg/kg	2.554	3.3 mg/kg	0.00033 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		43 mg/kg	1.785	58.34 mg/kg	0.00583 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		44 mg/kg	1.245	41.623 mg/kg	0.00416 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
15		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
16		toluene	601-021-00-3	203-625-9	108-88-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
17		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
18		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
20		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
21		acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22		acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23		fluorene		201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
24		phenanthrene		201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
25		anthracene		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26		fluoranthene		205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
27		pyrene		204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
28		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
29		chrysene	601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
30		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
31		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
32		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
33		benzo[ghi]perylene		205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
34		monohydric phenols			P1186		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
35		benzo[bk]fluoranthene		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
									Total:	0.0229 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

WAC results for sample: S1-BH112-106-15/12/2022-3.70

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"
The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria.

The sample PASSES the Hazardous (Hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	1.6	3	5	6
2	LOI (loss on ignition)	%	7.5	-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.01	6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.1	1	-	-
5	Mineral oil (C10 to C40)	mg/kg	<10	500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<2	100	-	-
7	pH	pH	6.5	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg	0.004	-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg	0.012	0.5	2	25
10	barium	mg/kg	0.5	20	100	300
11	cadmium	mg/kg	<0.0001	0.04	1	5
12	chromium	mg/kg	0.016	0.5	10	70
13	copper	mg/kg	0.01	2	50	100
14	mercury	mg/kg	<5.0e-05	0.01	0.2	2
15	molybdenum	mg/kg	0.026	0.5	10	30
16	nickel	mg/kg	0.041	0.4	10	40
17	lead	mg/kg	<0.0005	0.5	10	50
18	antimony	mg/kg	0.0009	0.06	0.7	5
19	selenium	mg/kg	0.037	0.1	0.5	7
20	zinc	mg/kg	0.16	4	50	200
21	chloride	mg/kg	<10	800	15,000	25,000
22	fluoride	mg/kg	2.5	10	150	500
23	sulphate	mg/kg	110	1,000	20,000	50,000
24	phenol index	mg/kg	<0.5	1	-	-
25	DOC (dissolved organic carbon)	mg/kg	89	500	800	1,000
26	TDS (total dissolved solids)	mg/kg	720	4,000	60,000	100,000

Key

	User supplied data
	Not applicable

Classification of sample: S1-BH106

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH106
Sample Depth:
0.2-0.3 m
Moisture content:
8.2%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 8.2% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8	pH		8	pH	8pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12	mg/kg	1.32	14.545	mg/kg	0.00145 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.36	mg/kg	1.142	0.378	mg/kg	0.0000378 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		7.1	mg/kg	1.462	9.526	mg/kg	0.000953 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		55	mg/kg	1.126	56.846	mg/kg	0.00568 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	33	mg/kg	1.56	47.253	mg/kg	0.00303 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.1	mg/kg	1.353	0.124	mg/kg	0.0000124 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21	mg/kg	2.976	57.376	mg/kg	0.00574 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.7	mg/kg	2.554	3.986	mg/kg	0.000399 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		7.2	mg/kg	1.785	11.799	mg/kg	0.00118 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		76	mg/kg	1.245	86.841	mg/kg	0.00868 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				1.8	mg/kg		1.652	mg/kg	0.000165 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				0.35	mg/kg		0.321	mg/kg	0.0000321 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				2.3	mg/kg		2.111	mg/kg	0.000211 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.37	mg/kg		0.34	mg/kg	0.000034 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				1.8	mg/kg		1.652	mg/kg	0.000165 %	✓	
			205-912-4	206-44-0									
27		pyrene				1.4	mg/kg		1.285	mg/kg	0.000129 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.51	mg/kg		0.468	mg/kg	0.0000468 %	✓	
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.89	mg/kg		0.817	mg/kg	0.0000817 %	✓	
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				0.97	mg/kg		0.89	mg/kg	0.000089 %	✓	
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0296 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH106 (1)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH106 (1)
Sample Depth:
0.9-1.0 m
Moisture content:
8.7%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 8.7% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.9	pH		8.9	pH	8.9 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.1	mg/kg	1.32	10.97	mg/kg	0.0011 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.68	mg/kg	5.719	3.551	mg/kg	0.000355 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2	mg/kg	1.142	0.209	mg/kg	0.0000209 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		6.5	mg/kg	1.462	8.674	mg/kg	0.000867 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		**<LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		36	mg/kg	1.126	37.006	mg/kg	0.0037 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	23	mg/kg	1.56	32.755	mg/kg	0.0021 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.06	mg/kg	1.353	0.0741	mg/kg	0.00000741 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18	mg/kg	2.976	48.912	mg/kg	0.00489 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.1	mg/kg	2.554	2.565	mg/kg	0.000256 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		6.2	mg/kg	1.785	10.105	mg/kg	0.00101 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		54	mg/kg	1.245	61.367	mg/kg	0.00614 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		**<LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<**LOD**
		006-007-00-5											
20		naphthalene				2	mg/kg		1.826	mg/kg	0.000183 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				0.27	mg/kg		0.247	mg/kg	0.0000247 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				2	mg/kg		1.826	mg/kg	0.000183 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.42	mg/kg		0.383	mg/kg	0.0000383 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				1.6	mg/kg		1.461	mg/kg	0.000146 %	✓	
			205-912-4	206-44-0									
27		pyrene				1.1	mg/kg		1.004	mg/kg	0.0001 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.38	mg/kg		0.347	mg/kg	0.0000347 %	✓	
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.72	mg/kg		0.657	mg/kg	0.0000657 %	✓	
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
				P1186									
35		benzo[bk]fluoranthene				0.82	mg/kg		0.749	mg/kg	0.0000749 %	✓	
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0226 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH106 (4)

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:
S1-BH106 (4)
Sample Depth:
2.5-2.7 m
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

lead chromate: (Note 1 conc.: 0.287%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinands:

lead chromate: (Note 1 conc.: 0.287%)
zinc oxide: (compound conc.: 1.733%)

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.8	pH		8.8	pH	8.8 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		99	mg/kg	1.32	113.72	mg/kg	0.0114 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		4.2	mg/kg	5.719	20.898	mg/kg	0.00209 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		14	mg/kg	1.142	13.914	mg/kg	0.00139 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		440	mg/kg	1.462	559.484	mg/kg	0.0559 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		130	mg/kg	1.126	127.338	mg/kg	0.0127 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
8		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	3300	mg/kg	1.56	4478.229	mg/kg	0.287 %	✓	
9		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1.2	mg/kg	1.353	1.413	mg/kg	0.000141 %	✓	
10		nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21	mg/kg	2.976	54.376	mg/kg	0.00544 %	✓	
11		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.6	mg/kg	2.554	3.555	mg/kg	0.000355 %	✓	
12		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		44	mg/kg	1.785	68.337	mg/kg	0.00683 %	✓	
13		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		16000	mg/kg	1.245	17326.419	mg/kg	1.733 %	✓	
14		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
15		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
16		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
17		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
18		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
20		naphthalene	601-052-00-2	202-049-5	91-20-3		0.24	mg/kg		0.209	mg/kg	0.0000209 %	✓	
21		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
22		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24		phenanthrene		201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25		anthracene		204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		fluoranthene		205-912-4	206-44-0		0.28	mg/kg		0.244	mg/kg	0.0000244 %	✓	
27		pyrene		204-927-3	129-00-0		0.18	mg/kg		0.157	mg/kg	0.0000157 %	✓	
28		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
29		chrysene	601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
30		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
31		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
32		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
33		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
				P1186									
35		benzo[bk]fluoranthene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	2.117 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH106 (2)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH106 (2)
Sample Depth:
5.5-5.7 m
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.1	pH		8.1	pH	8.1 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.3	mg/kg	1.32	9.534	mg/kg	0.000953 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.48	mg/kg	5.719	2.388	mg/kg	0.000239 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.25	mg/kg	1.142	0.248	mg/kg	0.0000248 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		5.9	mg/kg	1.462	7.502	mg/kg	0.00075 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		47	mg/kg	1.126	46.038	mg/kg	0.0046 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	60	mg/kg	1.56	81.422	mg/kg	0.00522 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.11	mg/kg	1.353	0.13	mg/kg	0.000013 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18	mg/kg	2.976	46.608	mg/kg	0.00466 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2.2	mg/kg	2.554	4.888	mg/kg	0.000489 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		5.4	mg/kg	1.785	8.387	mg/kg	0.000839 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		140	mg/kg	1.245	151.606	mg/kg	0.0152 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<**LOD**
		006-007-00-5											
20		naphthalene				3.2	mg/kg		2.784	mg/kg	0.000278 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				0.4	mg/kg		0.348	mg/kg	0.0000348 %	✓	
			201-469-6	83-32-9									
23		fluorene				0.33	mg/kg		0.287	mg/kg	0.0000287 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				1.1	mg/kg		0.957	mg/kg	0.0000957 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.26	mg/kg		0.226	mg/kg	0.0000226 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				0.59	mg/kg		0.513	mg/kg	0.0000513 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.38	mg/kg		0.331	mg/kg	0.0000331 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.13	mg/kg		0.113	mg/kg	0.0000113 %	✓	
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.23	mg/kg		0.2	mg/kg	0.00002 %	✓	
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
34		monohydric phenols				0.2	mg/kg		0.174	mg/kg	0.0000174 %	✓	
				P1186									
35		benzo[bk]fluoranthene				0.46	mg/kg		0.4	mg/kg	0.00004 %	✓	
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0348 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: S1-BH106 (3)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
S1-BH106 (3)
Sample Depth:
8.5-8.7 m
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		8 pH		8 pH	8pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.9 mg/kg	1.32	11.372 mg/kg	0.00114 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.56 mg/kg	5.719	2.786 mg/kg	0.000279 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.5 mg/kg	1.142	1.491 mg/kg	0.000149 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12 mg/kg	1.462	15.259 mg/kg	0.00153 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		50 mg/kg	1.126	48.976 mg/kg	0.0049 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	100 mg/kg	1.56	135.704 mg/kg	0.0087 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.15 mg/kg	1.353	0.177 mg/kg	0.0000177 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		24 mg/kg	2.976	62.144 mg/kg	0.00621 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2.2 mg/kg	2.554	4.888 mg/kg	0.000489 %	✓	
12	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		6.9 mg/kg	1.785	10.716 mg/kg	0.00107 %	✓	
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		350 mg/kg	1.245	379.015 mg/kg	0.0379 %	✓	
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
20		naphthalene				6	mg/kg		5.22	mg/kg	0.000522 %	✓	
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				0.84	mg/kg		0.731	mg/kg	0.0000731 %	✓	
			201-469-6	83-32-9									
23		fluorene				0.39	mg/kg		0.339	mg/kg	0.0000339 %	✓	
			201-695-5	86-73-7									
24		phenanthrene				1.5	mg/kg		1.305	mg/kg	0.000131 %	✓	
			201-581-5	85-01-8									
25		anthracene				0.3	mg/kg		0.261	mg/kg	0.0000261 %	✓	
			204-371-1	120-12-7									
26		fluoranthene				0.57	mg/kg		0.496	mg/kg	0.0000496 %	✓	
			205-912-4	206-44-0									
27		pyrene				0.35	mg/kg		0.305	mg/kg	0.0000305 %	✓	
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.19	mg/kg		0.165	mg/kg	0.0000165 %	✓	
		601-048-00-0	205-923-4	218-01-9									
30		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
34		monohydric phenols				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				P1186									
35		benzo[bk]fluoranthene				0.37	mg/kg		0.322	mg/kg	0.0000322 %	✓	
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
										Total:	0.0646 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH29

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH29
Sample Depth:
0.2m m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.9	pH		8.9	pH	8.9 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.4	mg/kg	1.32	8.45	mg/kg	0.000845 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.16	mg/kg	1.142	0.183	mg/kg	0.0000183 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		9.6	mg/kg	1.462	14.031	mg/kg	0.0014 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		35	mg/kg	1.126	39.406	mg/kg	0.00394 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	19	mg/kg	1.56	29.636	mg/kg	0.0019 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<**LOD**
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		24	mg/kg	2.976	71.43	mg/kg	0.00714 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.49	mg/kg	2.554	1.251	mg/kg	0.000125 %	✓	
12	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		63	mg/kg	1.245	78.417	mg/kg	0.00784 %	✓	
13	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
14	benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
15	toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
16	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
17		xylene											
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<**LOD**
		006-007-00-5											
19		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
20		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
21		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
22		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
23		phenanthrene				0.97	mg/kg		0.97	mg/kg	0.000097 %	✓	
			201-581-5	85-01-8									
24		anthracene				0.21	mg/kg		0.21	mg/kg	0.000021 %	✓	
			204-371-1	120-12-7									
25		fluoranthene				1	mg/kg		1	mg/kg	0.0001 %	✓	
			205-912-4	206-44-0									
26		pyrene				0.83	mg/kg		0.83	mg/kg	0.000083 %	✓	
			204-927-3	129-00-0									
27		benzo[a]anthracene				0.37	mg/kg		0.37	mg/kg	0.000037 %	✓	
		601-033-00-9	200-280-6	56-55-3									
28		chrysene				0.56	mg/kg		0.56	mg/kg	0.000056 %	✓	
		601-048-00-0	205-923-4	218-01-9									
29		benzo[b]fluoranthene				0.61	mg/kg		0.61	mg/kg	0.000061 %	✓	
		601-034-00-4	205-911-9	205-99-2									
30		benzo[k]fluoranthene				0.18	mg/kg		0.18	mg/kg	0.000018 %	✓	
		601-036-00-5	205-916-6	207-08-9									
31		benzo[a]pyrene; benzo[def]chrysene				0.3	mg/kg		0.3	mg/kg	0.00003 %	✓	
		601-032-00-3	200-028-5	50-32-8									
32		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
33		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
34		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
35		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
36		asbestos				<			<		<		**ND**
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.0253 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH29[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH29[2]
Sample Depth:
2m m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.3	pH		7.3	pH	7.3 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		1.5	mg/kg	1.32	1.98	mg/kg	0.000198 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		3.7	mg/kg	1.462	5.408	mg/kg	0.000541 %	✓	
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		27	mg/kg	1.126	30.399	mg/kg	0.00304 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	10	mg/kg	1.56	15.598	mg/kg	0.001 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.14	mg/kg	1.353	0.189	mg/kg	0.0000189 %	✓	
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		5.8	mg/kg	2.976	17.262	mg/kg	0.00173 %	✓	
10	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.44	mg/kg	2.554	1.124	mg/kg	0.000112 %	✓	
11	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		19	mg/kg	1.245	23.65	mg/kg	0.00236 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
13	benzene	601-020-00-8	200-753-7	71-43-2		0.0013	mg/kg		0.0013	mg/kg	0.00000013 %	✓	
14	toluene	601-021-00-3	203-625-9	108-88-3		0.001	mg/kg		0.001	mg/kg	0.0000001 %	✓	
15	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
16	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2]	95-47-6 [1] 106-42-3 [2]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
			203-576-3 [3] 215-535-7 [4]	108-38-3 [3] 1330-20-7 [4]									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<**LOD**
18		naphthalene 601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
19		acenaphthylene	205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
20		acenaphthene	201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
21		fluorene	201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
22		phenanthrene	201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
23		anthracene	204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
24		fluoranthene	205-912-4	206-44-0		0.21	mg/kg		0.21	mg/kg	0.000021 %	✓	
25		pyrene	204-927-3	129-00-0		0.22	mg/kg		0.22	mg/kg	0.000022 %	✓	
26		benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
27		chrysene 601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
28		benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
29		benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
30		benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
31		indeno[123-cd]pyrene	205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
32		dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
33		benzo[ghi]perylene	205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
34		phenol 604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
35		asbestos 650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<			<		<		**ND**
										Total:	0.0105 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The risk phrase HP 3 (i) Flammable is unlikely to apply to this waste stream. This is due to the solid soil and natural moisture content of the sample. The concentration required to provide a flammability risk is likely to be >10,000mg. This risk of flammability from solid state soils <10,000mg/kg TPH is negligible and has been deemed non-hazardous if below this concentration. [Source: AGS Waste Classification for Soils 2019]

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 1.3e-07%)
toluene: (conc.: 1.0e-07%)

Classification of sample: BH30

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
BH30	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.2m m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.7 pH		8.7 pH	8.7 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		2.6 mg/kg	1.32	3.433 mg/kg	0.000343 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4 mg/kg	5.719	<2.288 mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		1.3 mg/kg	1.462	1.9 mg/kg	0.00019 %	✓	
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17 mg/kg	1.126	19.14 mg/kg	0.00191 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	8 mg/kg	1.56	12.479 mg/kg	0.0008 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		6.4 mg/kg	2.976	19.048 mg/kg	0.0019 %	✓	
10	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.27 mg/kg	2.554	0.69 mg/kg	0.000069 %	✓	
11	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		52 mg/kg	1.245	64.725 mg/kg	0.00647 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		270 mg/kg		270 mg/kg	0.027 %	✓	
13	benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
14	toluene	601-021-00-3	203-625-9	108-88-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
15	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
16	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2]	95-47-6 [1] 106-42-3 [2]		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
			203-576-3 [3] 215-535-7 [4]	108-38-3 [3] 1330-20-7 [4]							
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<**LOD**
		006-007-00-5									
18		naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3							
19		acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8							
20		acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9							
21		fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7							
22		phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8							
23		anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7							
24		fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0							
25		pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0							
26		benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3							
27		chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9							
28		benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2							
29		benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9							
30		benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8							
31		indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5							
32		dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3							
33		benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2							
34		phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2							
35		asbestos				<		<	<		**ND**
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
								Total:	0.0392 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The risk phrase HP 3 (i) Flammable is unlikely to apply to this waste stream. This is due to the solid soil and natural moisture content of the sample. The concentration required to provide a flammability risk is likely to be >10,000mg. This risk of flammability from solid state soils <10,000mg/kg TPH is negligible and has been deemed non-hazardous if below this concentration. [Source: AGS Waste Classification for Soils 2019]

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.027%)

Classification of sample: BH30[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH30[2]
Sample Depth:
4m m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		6.9 pH		6.9 pH	6.9 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		27 mg/kg	1.32	35.649 mg/kg	0.00356 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.55 mg/kg	5.719	3.146 mg/kg	0.000315 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.32 mg/kg	1.142	0.366 mg/kg	0.0000366 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11 mg/kg	1.462	16.077 mg/kg	0.00161 %	✓	
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		7.8 mg/kg	1.126	8.782 mg/kg	0.000878 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	16 mg/kg	1.56	24.957 mg/kg	0.0016 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		5.2 mg/kg	2.976	15.477 mg/kg	0.00155 %	✓	
10	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.87 mg/kg	2.554	2.222 mg/kg	0.000222 %	✓	
11	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		21 mg/kg	1.245	26.139 mg/kg	0.00261 %	✓	
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<**LOD**
13	naphthalene	601-052-00-2	202-049-5	91-20-3		0.72 mg/kg		0.72 mg/kg	0.000072 %	✓	
14	acenaphthylene		205-917-1	208-96-8		0.23 mg/kg		0.23 mg/kg	0.000023 %	✓	
15	acenaphthene		201-469-6	83-32-9		1.2 mg/kg		1.2 mg/kg	0.00012 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		fluorene				1.3	mg/kg		1.3	mg/kg	0.00013 %	✓	
			201-695-5	86-73-7									
17		phenanthrene				8.3	mg/kg		8.3	mg/kg	0.00083 %	✓	
			201-581-5	85-01-8									
18		anthracene				2.3	mg/kg		2.3	mg/kg	0.00023 %	✓	
			204-371-1	120-12-7									
19		fluoranthene				11	mg/kg		11	mg/kg	0.0011 %	✓	
			205-912-4	206-44-0									
20		pyrene				9	mg/kg		9	mg/kg	0.0009 %	✓	
			204-927-3	129-00-0									
21		benzo[a]anthracene				4.8	mg/kg		4.8	mg/kg	0.00048 %	✓	
		601-033-00-9	200-280-6	56-55-3									
22		chrysene				4.3	mg/kg		4.3	mg/kg	0.00043 %	✓	
		601-048-00-0	205-923-4	218-01-9									
23		benzo[b]fluoranthene				7.5	mg/kg		7.5	mg/kg	0.00075 %	✓	
		601-034-00-4	205-911-9	205-99-2									
24		benzo[k]fluoranthene				2.8	mg/kg		2.8	mg/kg	0.00028 %	✓	
		601-036-00-5	205-916-6	207-08-9									
25		benzo[a]pyrene; benzo[def]chrysene				6.6	mg/kg		6.6	mg/kg	0.00066 %	✓	
		601-032-00-3	200-028-5	50-32-8									
26		indeno[123-cd]pyrene				5.1	mg/kg		5.1	mg/kg	0.00051 %	✓	
			205-893-2	193-39-5									
27		dibenz[a,h]anthracene				0.79	mg/kg		0.79	mg/kg	0.000079 %	✓	
		601-041-00-2	200-181-8	53-70-3									
28		benzo[ghi]perylene				3.7	mg/kg		3.7	mg/kg	0.00037 %	✓	
			205-883-8	191-24-2									
29		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		**<LOD**
		604-001-00-2	203-632-7	108-95-2									
30		asbestos				<			<		<		**ND**
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.0195 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH33

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH33
Sample Depth:
0.2m m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		7.9	pH		7.9	pH	7.9 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.8	mg/kg	1.32	10.299	mg/kg	0.00103 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.16	mg/kg	1.142	0.183	mg/kg	0.0000183 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16	mg/kg	1.462	23.385	mg/kg	0.00234 %	✓	
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		39	mg/kg	1.126	43.91	mg/kg	0.00439 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	23	mg/kg	1.56	35.876	mg/kg	0.0023 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.15	mg/kg	1.353	0.203	mg/kg	0.0000203 %	✓	
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		42	mg/kg	2.976	125.003	mg/kg	0.0125 %	✓	
10	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.86	mg/kg	2.554	2.196	mg/kg	0.00022 %	✓	
11	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		250	mg/kg	1.245	311.178	mg/kg	0.0311 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
13	benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
14	toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
15	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
16	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2]	95-47-6 [1] 106-42-3 [2]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
			203-576-3 [3] 215-535-7 [4]	108-38-3 [3] 1330-20-7 [4]									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				2.9	mg/kg	1.884	5.464	mg/kg	0.000546 %	✓	
18		naphthalene 601-052-00-2	202-049-5	91-20-3		2	mg/kg		2	mg/kg	0.0002 %	✓	
19		acenaphthylene	205-917-1	208-96-8		0.28	mg/kg		0.28	mg/kg	0.000028 %	✓	
20		acenaphthene	201-469-6	83-32-9		0.74	mg/kg		0.74	mg/kg	0.000074 %	✓	
21		fluorene	201-695-5	86-73-7		0.95	mg/kg		0.95	mg/kg	0.000095 %	✓	
22		phenanthrene	201-581-5	85-01-8		4.3	mg/kg		4.3	mg/kg	0.00043 %	✓	
23		anthracene	204-371-1	120-12-7		1.8	mg/kg		1.8	mg/kg	0.00018 %	✓	
24		fluoranthene	205-912-4	206-44-0		12	mg/kg		12	mg/kg	0.0012 %	✓	
25		pyrene	204-927-3	129-00-0		9.4	mg/kg		9.4	mg/kg	0.00094 %	✓	
26		benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		9.2	mg/kg		9.2	mg/kg	0.00092 %	✓	
27		chrysene 601-048-00-0	205-923-4	218-01-9		11	mg/kg		11	mg/kg	0.0011 %	✓	
28		benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		13	mg/kg		13	mg/kg	0.0013 %	✓	
29		benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		4.3	mg/kg		4.3	mg/kg	0.00043 %	✓	
30		benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		7.4	mg/kg		7.4	mg/kg	0.00074 %	✓	
31		indeno[123-cd]pyrene	205-893-2	193-39-5		4.9	mg/kg		4.9	mg/kg	0.00049 %	✓	
32		dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		2.1	mg/kg		2.1	mg/kg	0.00021 %	✓	
33		benzo[ghi]perylene	205-883-8	191-24-2		4.7	mg/kg		4.7	mg/kg	0.00047 %	✓	
34		phenol 604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		**<LOD**
35		asbestos 650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<			<		<		**ND**
										Total:	0.0645 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP1

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:
TP1
Sample Depth:
0.2m m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.11%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.11%)

Determinands

Moisture content: 0% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.2 pH		8.2 pH	8.2 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4 mg/kg	5.719	<2.288 mg/kg	<0.000229 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.26 mg/kg	1.142	0.297 mg/kg	0.0000297 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %	✓	
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		69 mg/kg	1.126	77.686 mg/kg	0.00777 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	26 mg/kg	1.56	40.555 mg/kg	0.0026 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		34 mg/kg	2.976	101.193 mg/kg	0.0101 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
10		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.61	mg/kg	2.554	1.558	mg/kg	0.000156 %	✓	
11		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		110	mg/kg	1.245	136.919	mg/kg	0.0137 %	✓	
12		TPH (C6 to C40) petroleum group			TPH		1100	mg/kg		1100	mg/kg	0.11 %	✓	
13		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
14		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
15		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
16		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<**LOD**
18		naphthalene	601-052-00-2	202-049-5	91-20-3		1.2	mg/kg		1.2	mg/kg	0.00012 %	✓	
19		acenaphthylene		205-917-1	208-96-8		0.22	mg/kg		0.22	mg/kg	0.000022 %	✓	
20		acenaphthene		201-469-6	83-32-9		0.22	mg/kg		0.22	mg/kg	0.000022 %	✓	
21		fluorene		201-695-5	86-73-7		0.3	mg/kg		0.3	mg/kg	0.00003 %	✓	
22		phenanthrene		201-581-5	85-01-8		2.4	mg/kg		2.4	mg/kg	0.00024 %	✓	
23		anthracene		204-371-1	120-12-7		0.46	mg/kg		0.46	mg/kg	0.000046 %	✓	
24		fluoranthene		205-912-4	206-44-0		4.3	mg/kg		4.3	mg/kg	0.00043 %	✓	
25		pyrene		204-927-3	129-00-0		4.1	mg/kg		4.1	mg/kg	0.00041 %	✓	
26		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		2.3	mg/kg		2.3	mg/kg	0.00023 %	✓	
27		chrysene	601-048-00-0	205-923-4	218-01-9		2.5	mg/kg		2.5	mg/kg	0.00025 %	✓	
28		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		2.9	mg/kg		2.9	mg/kg	0.00029 %	✓	
29		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		1.1	mg/kg		1.1	mg/kg	0.00011 %	✓	
30		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		2	mg/kg		2	mg/kg	0.0002 %	✓	
31		indeno[123-cd]pyrene		205-893-2	193-39-5		1.4	mg/kg		1.4	mg/kg	0.00014 %	✓	
32		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.35	mg/kg		0.35	mg/kg	0.000035 %	✓	
33		benzo[ghi]perylene		205-883-8	191-24-2		1.3	mg/kg		1.3	mg/kg	0.00013 %	✓	
34		phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
35		asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4		<			<		<		**ND**

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
				77536-68-6 77536-67-5 12001-29-5							
								Total:	0.152 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The risk phrase HP 3 (i) Flammable is unlikely to apply to this waste stream. This is due to the solid soil and natural moisture content of the sample. The concentration required to provide a flammability risk is likely to be >10,000mg. This risk of flammability from solid state soils <10,000mg/kg TPH is negligible and has been deemed non-hazardous if below this concentration. [Source: AGS Waste Classification for Soils 2019]

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.11%)

Classification of sample: TP1[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP1[2]
Sample Depth:
1m m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	pH			PH		9	pH		9	pH	9pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17	mg/kg	1.32	22.446	mg/kg	0.00224 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4	mg/kg	5.719	<2.288	mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.46	mg/kg	1.142	0.525	mg/kg	0.0000525 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13	mg/kg	1.462	19	mg/kg	0.0019 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		260	mg/kg	1.126	292.731	mg/kg	0.0293 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	69	mg/kg	1.56	107.627	mg/kg	0.0069 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.15	mg/kg	1.353	0.203	mg/kg	0.0000203 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		26	mg/kg	2.976	77.383	mg/kg	0.00774 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.1	mg/kg	2.554	2.809	mg/kg	0.000281 %	✓	
12	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		240	mg/kg	1.245	298.731	mg/kg	0.0299 %	✓	
13	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
14	benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
15	toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
16	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
17		xylene 601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<**LOD**
19		naphthalene 601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
20		acenaphthylene	205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
21		acenaphthene	201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
22		fluorene	201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
23		phenanthrene	201-581-5	85-01-8		2.8	mg/kg		2.8	mg/kg	0.00028 %	✓	
24		anthracene	204-371-1	120-12-7		0.64	mg/kg		0.64	mg/kg	0.000064 %	✓	
25		fluoranthene	205-912-4	206-44-0		4	mg/kg		4	mg/kg	0.0004 %	✓	
26		pyrene	204-927-3	129-00-0		3.3	mg/kg		3.3	mg/kg	0.00033 %	✓	
27		benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		1.7	mg/kg		1.7	mg/kg	0.00017 %	✓	
28		chrysene 601-048-00-0	205-923-4	218-01-9		2	mg/kg		2	mg/kg	0.0002 %	✓	
29		benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		2.5	mg/kg		2.5	mg/kg	0.00025 %	✓	
30		benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.82	mg/kg		0.82	mg/kg	0.000082 %	✓	
31		benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		1.6	mg/kg		1.6	mg/kg	0.00016 %	✓	
32		indeno[123-cd]pyrene	205-893-2	193-39-5		1.2	mg/kg		1.2	mg/kg	0.00012 %	✓	
33		dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		0.24	mg/kg		0.24	mg/kg	0.000024 %	✓	
34		benzo[ghi]perylene	205-883-8	191-24-2		1.2	mg/kg		1.2	mg/kg	0.00012 %	✓	
35		phenol 604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
36		asbestos 650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<			<		<		**ND**
										Total:	0.082 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP2

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:	
TP2	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.3m m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.5 pH		8.5 pH	8.5 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14 mg/kg	1.32	18.485 mg/kg	0.00185 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4 mg/kg	5.719	<2.288 mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.11 mg/kg	1.142	0.126 mg/kg	0.0000126 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11 mg/kg	1.462	16.077 mg/kg	0.00161 %	✓	
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		38 mg/kg	1.126	42.784 mg/kg	0.00428 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	23 mg/kg	1.56	35.876 mg/kg	0.0023 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.1 mg/kg	1.353	0.135 mg/kg	0.0000135 %	✓	
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18 mg/kg	2.976	53.573 mg/kg	0.00536 %	✓	
10	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1 mg/kg	2.554	2.554 mg/kg	0.000255 %	✓	
11	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		41 mg/kg	1.245	51.033 mg/kg	0.0051 %	✓	
12	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**
13	benzene	601-020-00-8	200-753-7	71-43-2		0.0014 mg/kg		0.0014 mg/kg	0.00000014 %	✓	
14	toluene	601-021-00-3	203-625-9	108-88-3		0.0013 mg/kg		0.0013 mg/kg	0.00000013 %	✓	
15	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
16	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2]	95-47-6 [1] 106-42-3 [2]		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
			203-576-3 [3] 215-535-7 [4]	108-38-3 [3] 1330-20-7 [4]									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<**LOD**
		006-007-00-5											
18		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
19		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
20		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
21		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
22		phenanthrene				1.4	mg/kg		1.4	mg/kg	0.00014 %	✓	
			201-581-5	85-01-8									
23		anthracene				0.25	mg/kg		0.25	mg/kg	0.000025 %	✓	
			204-371-1	120-12-7									
24		fluoranthene				1	mg/kg		1	mg/kg	0.0001 %	✓	
			205-912-4	206-44-0									
25		pyrene				0.83	mg/kg		0.83	mg/kg	0.000083 %	✓	
			204-927-3	129-00-0									
26		benzo[a]anthracene				0.37	mg/kg		0.37	mg/kg	0.000037 %	✓	
		601-033-00-9	200-280-6	56-55-3									
27		chrysene				0.55	mg/kg		0.55	mg/kg	0.000055 %	✓	
		601-048-00-0	205-923-4	218-01-9									
28		benzo[b]fluoranthene				0.57	mg/kg		0.57	mg/kg	0.000057 %	✓	
		601-034-00-4	205-911-9	205-99-2									
29		benzo[k]fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %	✓	
		601-036-00-5	205-916-6	207-08-9									
30		benzo[a]pyrene; benzo[def]chrysene				0.26	mg/kg		0.26	mg/kg	0.000026 %	✓	
		601-032-00-3	200-028-5	50-32-8									
31		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
32		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
33		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
34		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
35		asbestos				<			<		<		**ND**
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.0227 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The risk phrase HP 3 (i) Flammable is unlikely to apply to this waste stream. This is due to the solid soil and natural moisture content of the sample. The concentration required to provide a flammability risk is likely to be >10,000mg. This risk of flammability from solid state soils <10,000mg/kg TPH is negligible and has been deemed non-hazardous if below this concentration. [Source: AGS Waste Classification for Soils 2019]

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 1.4e-07%)
toluene: (conc.: 1.3e-07%)

Classification of sample: TP2[2]

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:	
TP2[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
1m m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.6%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.6%)

Determinands

Moisture content: 0% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	pH			PH		8.5 pH		8.5 pH	8.5 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17 mg/kg	1.32	22.446 mg/kg	0.00224 %	✓	
3	boron { boric acid; [1] boric acid [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		<0.4 mg/kg	5.719	<2.288 mg/kg	<0.000229 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.34 mg/kg	1.142	0.388 mg/kg	0.0000388 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		5.5 mg/kg	1.462	8.039 mg/kg	0.000804 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		62 mg/kg	1.126	69.805 mg/kg	0.00698 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	47 mg/kg	1.56	73.311 mg/kg	0.0047 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
9		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.13	mg/kg	1.353	0.176	mg/kg	0.0000176 %	✓	
10		nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18	mg/kg	2.976	53.573	mg/kg	0.00536 %	✓	
11		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.7	mg/kg	2.554	4.342	mg/kg	0.000434 %	✓	
12		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		150	mg/kg	1.245	186.707	mg/kg	0.0187 %	✓	
13		TPH (C6 to C40) petroleum group			TPH		6000	mg/kg		6000	mg/kg	0.6 %	✓	
14		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
15		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
16		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
17		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<**LOD**
19		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
20		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
21		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
22		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
23		phenanthrene		201-581-5	85-01-8		2.6	mg/kg		2.6	mg/kg	0.00026 %	✓	
24		anthracene		204-371-1	120-12-7		0.48	mg/kg		0.48	mg/kg	0.000048 %	✓	
25		fluoranthene		205-912-4	206-44-0		2.5	mg/kg		2.5	mg/kg	0.00025 %	✓	
26		pyrene		204-927-3	129-00-0		2	mg/kg		2	mg/kg	0.0002 %	✓	
27		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.1	mg/kg		1.1	mg/kg	0.00011 %	✓	
28		chrysene	601-048-00-0	205-923-4	218-01-9		1.3	mg/kg		1.3	mg/kg	0.00013 %	✓	
29		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		1.4	mg/kg		1.4	mg/kg	0.00014 %	✓	
30		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.41	mg/kg		0.41	mg/kg	0.000041 %	✓	
31		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.76	mg/kg		0.76	mg/kg	0.000076 %	✓	
32		indeno[123-cd]pyrene		205-893-2	193-39-5		0.46	mg/kg		0.46	mg/kg	0.000046 %	✓	
33		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.14	mg/kg		0.14	mg/kg	0.000014 %	✓	
34		benzo[ghi]perylene		205-883-8	191-24-2		0.45	mg/kg		0.45	mg/kg	0.000045 %	✓	
35		phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
36		asbestos 650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<		<	<		**ND**
									Total:		0.641 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because The risk phrase HP 3 (i) Flammable is unlikely to apply to this waste stream. This is due to the solid soil and natural moisture content of the sample. The concentration required to provide a flammability risk is likely to be >10,000mg. This risk of flammability from solid state soils <10,000mg/kg TPH is negligible and has been deemed non-hazardous if below this concentration. [Source: AGS Waste Classification for Soils 2019]

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.6%)

Appendix A: Classifier defined and non GB MCL determinands

pH (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

chromium(III) oxide (worst case) (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database
Data source: https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex

GB MCL index number: 006-007-00-5
Description/Comments: Conversion factor based on a worst case compound: sodium cyanide
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s):
20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

acenaphthylene (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

anthracene (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

fluoranthene (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

pyrene (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

indeno[123-cd]pyrene (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2; H351

benzo[ghi]perylene (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

TPH (C6 to C40) petroleum group (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

ethylbenzene (EC Number: 202-849-4, CAS Number: 100-41-4)

GB MCL index number: 601-023-00-4
Description/Comments:
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

divanadium pentaoxide; vanadium pentoxide (EC Number: 215-239-8, CAS Number: 1314-62-1)

GB MCL index number: 023-001-00-8
Description/Comments:
Additional Hazard Statement(s): Carc. 1B; H350 , Acute Tox. 3; H301 , Acute Tox. 2; H330
Reason for additional Hazards Statement(s):
20 Sep 2022 - Carc. 1B; H350 hazard statement sourced from: ATP 18 (Regulation (EU) 2022/692) considers vanadium pentoxide to be Carc. 1B; H350. The GB MCL Agency has reached the same opinion [but is yet to formerly make this change to the MCL List]. Substance has therefore been self-classified.
28 Sep 2022 - Acute Tox. 3; H301 hazard statement sourced from: ATP 18 (Regulation (EU) 2022/692) considers vanadium pentoxide to be "Acute tox 3; H301". The GB MCL Agency has reached the same opinion [but is yet to formerly make this change to the MCL List]. Substance has therefore been self-classified.
28 Sep 2022 - Acute Tox. 2; H330 hazard statement sourced from: ATP 18 (Regulation (EU) 2022/692) considers vanadium pentoxide to be "Acute tox 2; H330". The GB MCL Agency has reached the same opinion [but is yet to formerly make this change to the MCL List]. Substance has therefore been self-classified.

monohydric phenols (CAS Number: P1186)

Description/Comments: Combined hazards statements from harmonised entries in CLP for phenol, cresols and xylenols (604-001-00-2, 604-004-00-9, 604-006-00-X)
Data source: CLP combined data
Data source date: 26 Mar 2019
Hazard Statements: Muta. 2; H341 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301 , STOT RE 2; H373 , Skin Corr. 1B; H314 , Skin Corr. 1B; H314 >= 3 % , Skin Irrit. 2; H315 1 £ conc. < 3 % , Eye Irrit. 2; H319 1 £ conc. < 3 % , Aquatic Chronic 2; H411

benzo[bk]fluoranthene (EC Number: [1] 205-911-9 [2] 205-916-6, CAS Number: [1] 205-99-2 [2] 207-08-9)

Description/Comments: Combined data from harmonised entries in CLP for benzo[b] and benzo[k]fluoranthene; C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Carc. 1B; H350 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Other worst case arsenic compounds are very soluble/exist only in solution.

boron {boric acid; [1] boric acid [2]}

Other worst case boron compounds react violently with water.

cadmium {cadmium oxide}

Sulphates and chlorides very soluble, fluoride and iodide unlikely.

chromium in chromium(III) compounds {chromium(III) oxide (worst case)}

Worst case

copper {dicopper oxide; copper (I) oxide}

Sulphates and some chlorides very soluble, thiocyanate unlikely without high cyanide concentrations and releases toxic gas. Can consider dicopper chloride trihydroxide, copper chloride, copper dihydroxide, copper (II) oxide if industrial uses fit the profile for those better.

lead {lead chromate}

Worst case

mercury {mercury dichloride}

Only worst case above it – difulminate – is an explosive.

nickel {nickel chromate}

Diiodide and dibromide very soluble, dithiocyanate unlikely without cyanide concentrations.

selenium {nickel selenate}

Worst case

zinc {zinc oxide}

Insufficient chromium VI measured in each sample, for zinc chromate to be present. Zinc chloride and zinc sulphate are highly soluble, and are unlikely to be present in exposed ground, and the site's conceptual site model shows the entirety of the site to be exposed. As such, it is considered likely that the majority of the zinc is present as zinc oxide.

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case as complex cyanides and those specified elsewhere in the annex are not likely to be present in this soil: [Note conversion factor based on a worst case compound: sodium cyanide] (edit as required)

chromium in chromium(VI) compounds {chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex}

Worst case

vanadium {divanadium pentaoxide; vanadium pentoxide}

Worst case species (edit as required)

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021
HazWasteOnline Classification Engine Version: 2023.110.5568.10273 (20 Apr 2023)
HazWasteOnline Database: 2023.108.5567.10271 (18 Apr 2023)

This classification utilises the following guidance and legislation:
WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017
13th ATP - Regulation (EU) 2018/1480 of 4 October 2018
14th ATP - Regulation (EU) 2020/217 of 4 October 2019
15th ATP - Regulation (EU) 2020/1182 of 19 May 2020
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020
The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020
GB MCL List - version 1.1 of 09 June 2021