

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: MSMW220B		PAGE 2 of 2	
	NUMBER	TYPE					START DATE: 11/5/99	DRILLING METHOD: ROTARY AIR FLUSH	FINISH DATE: 12/5/99	BOREHOLE DIAMETER: 200/165 mm
S2 C2 *319							DESCRIPTION		COMMENTS	
							10	Light brown sandy CLAY with frequent light brown-grey sandstone cobbles (BOULDER CLAY)	Damp following rod connection	10
							11	Brown-grey very sandy CLAY (BOULDER CLAY)	becoming dry	11
							12		Dry-slightly damp	12
							13	Orange-brown SAND with rounded cobbles	Damp Productive at 13m following rod connection	13
							14	Brown sandy CLAY with large sandstone boulders (BOULDER CLAY)	Damp	14
*343 *>2000							15	Grey-blue very silty CLAY (BOULDER CLAY)	No odour	15
							16	becoming grey-brown	No odour	16
							17		Very productive at 17.0m following rod connection	17
							18	Borehole terminated at 18.0 mbgl	Drying from	18
							19			19
							20			20

LOCATION / NOTES:

1. All measurements in m below ground level (mbgl)

LEGEND

- Disturbed Sample
- Undisturbed Sample
- Headspace Analysis
- Down Borehole Analysis
- Groundwater Table
- Perched Water Table

BOREHOLE LOG

Job Title: **SOIL & GROUNDWATER INVESTIGATION**

Location: **LLANDARCY REFINERY**

Client: **BP LLANDARCY LTD**

App'd: **DRAFT**

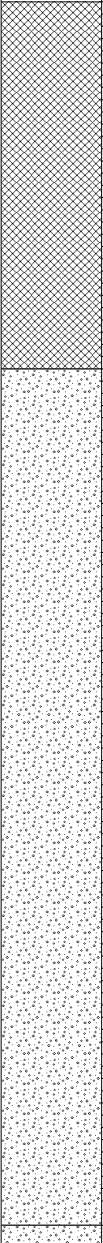
Ref: **CR/MC/BRS**

Date: **MAY 99**

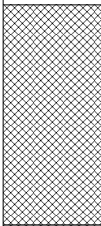
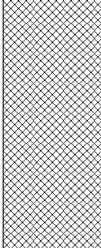
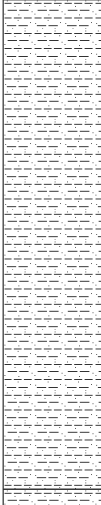
Job No: **39991-004-401**

DAMES & MOORE

Appendix C. Exploratory Hole Logs (REC, 2009)

REC Geotechnical Log						Borehole: DME9			
 Resource & Environmental Consultants Ltd.		Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)							
Client: St Modwen		Ground Level:		Coordinates:		Date: 29 & 30/07/09			
Installat ion	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records	
					Depth	Sample			Test
						Type	No.		
	Ground Surface	0.00		0.00	0.00				
	MADE GROUND : Compact fill.			1.00	1.00				
				2.00	2.00				
				3.00	3.00				
				4.00	4.00				
				5.00	5.00				
				6.00	6.00				
				7.00	7.00				
				8.00	8.00				
				9.00	9.00				
		10.00	10.00						
Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test									
Remarks 63mm diameter standpipe installed to 18.00m. Strong gas odour with oily water from GL to 3.00m. Notes						Logged by: AD			
						Scale:			
						FIG:			

REC Geotechnical Log							Borehole: DME9		
 Resource & Environmental Consultants Ltd.		Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)							
Client: St Modwen		Ground Level:		Coordinates:		Date: 29 & 30/07/09			
Installation	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records	
					Depth	Sample Type No.	Test		
	SAND and GRAVEL. (Slow penetration).	-12.40		11.00	11.00				
				12.00	12.00				
				13.00	13.00				
				14.00	14.00				
				15.00	15.00				
		16.00		16.00					
		17.00		17.00					
		18.00		18.00					
		19.00		19.00					
		20.00		20.00					
	CLAY with gravels.	-18.00							
	End of Log								
Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test Remarks 63mm diameter standpipe installed to 18.00m. Strong gas odour with oily water from GL to 3.00m. Notes							Logged by: AD Scale: FIG:		

REC Geotechnical Log						Borehole: DME6			
 Resource & Environmental Consultants Ltd.			Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)						
Client: St Modwen			Ground Level:		Coordinates:		Date: 29 & 30/07/09		
Installat ion	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records	
					Depth	Sample			Test
						Type	No.		
	Ground Surface	0.00		0.00	0.00				
	MADE GROUND : Brick fill.								
		-1.80							
	MADE GROUND : Concrete.	-2.30							
	MADE GROUND : GRAVEL fill.								
		-4.50							
	SAND and GRAVEL.	-6.00							
	Sandy CLAY.								
		-10.00		10.00	10.00				

Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test

Remarks

Trial pit dig to 1.20m.
63mm diameter standpipe installed to 19.00m

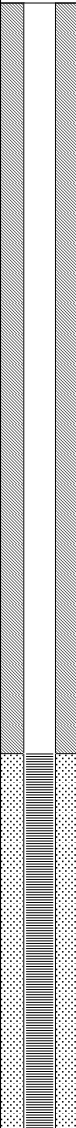
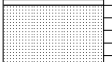
Notes

Hydrocarbon odour from 3.00m.

Logged by: AD

Scale:

FIG:

REC Geotechnical Log							Borehole: DME6		
 Resource & Environmental Consultants Ltd.			Equipment and Methods: Open Hole Rig						
			Location: Coed Darcy, Neath (80132)						
Client: St Modwen			Ground Level:		Coordinates:		Date: 29 & 30/07/09		
Installation	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records	
					Depth	Sample			Test
Type	No.								
	Sandy CLAY.	-10.50							
	Boulder CLAY.			11.00	11.00				
	Grey, weathered MUDSTONE.	-12.00		12.00	12.00				
				13.00	13.00				
	Grey SANDSTONE.	-14.00		14.00	14.00				
				15.00	15.00				
				16.00	16.00				
				17.00	17.00				
				18.00	18.00				
				19.00	19.00				
End of Log	-19.00		19.00	19.00					
			20.00	20.00					

Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test

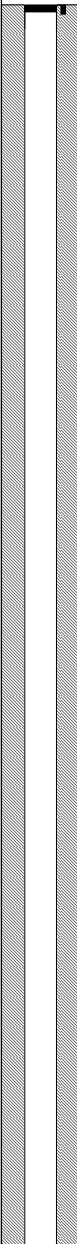
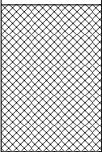
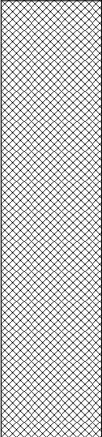
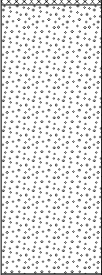
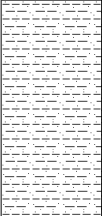
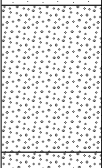
Remarks
Trial pit dig to 1.20m.
63mm diameter standpipe installed to 19.00m

Notes
Hydrocarbon odour from 3.00m.

Logged by: AD

Scale:

FIG:

REC Geotechnical Log							Borehole: DME5		
 Resource & Environmental Consultants Ltd.			Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)						
Client: St Modwen			Ground Level:		Coordinates:		Date: 24 & 27/07/09		
Installation	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records	
					Depth	Sample			Test
						Type	No.		
	Ground Surface	0.00		0.00	0.00				
	MADE GROUND : Compact fill.								
		-1.20		1.00	1.00				
	MADE GROUND : GRAVEL fill.								
				2.00	2.00				
				3.00	3.00				
		-4.80		4.00	4.00				
	Brown, sandy GRAVEL. (Slow penetration).			5.00	5.00				
				6.00	6.00				
				7.00	7.00				
	Grey, sandy CLAY.	-7.00		8.00	8.00				
				9.00	9.00				
		-8.80							
	Brown, sandy GRAVEL. (Slow penetration).								
		-10.00		10.00	10.00				

Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test

Remarks

Trial pit dug to 1.20m. 63mm diameter standpipe installed to 19.00m, response zone between 16m and 18m bg.
Groundwater encountered from 18.00m.

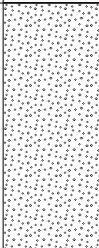
Notes

Oily odour @ 3.00m.

Logged by: AD

Scale:

FIG:

REC Geotechnical Log						Borehole: DME5				
 Resource & Environmental Consultants Ltd.			Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)							
Client: St Modwen			Ground Level:		Coordinates:		Date: 24 & 27/07/09			
Installation	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records		
					Depth	Sample			Test	
						Type	No.			
	Brown, sandy GRAVEL. (Slow penetration).	-12.00		11.00	11.00					
	Hard GRAVEL with mudstone bands. (Very slow penetration).			12.00	12.00					
				13.00	13.00					
				14.00	14.00					
				15.00	15.00					
	Grey, weathered MUDSTONE.	-16.00		16.00	16.00					
				17.00	17.00					
				18.00	18.00					
				19.00	19.00					
				20.00	20.00					
		-20.00								

Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test

Remarks

Trial pit dug to 1.20m. 63mm diameter standpipe installed to 19.00m, response zone between 16m and 18m bg. Groundwater encountered from 18.00m.

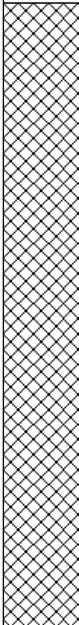
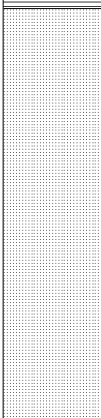
Notes

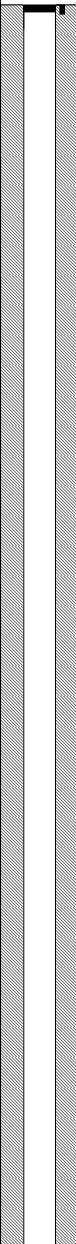
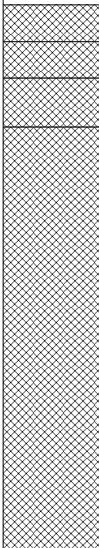
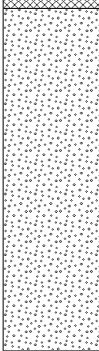
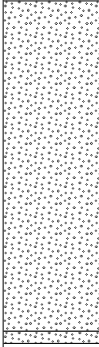
Oily odour @ 3.00m.

Logged by: AD

Scale:

FIG:

REC Geotechnical Log						Borehole: DME5			
 Resource & Environmental Consultants Ltd.			Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)						
Client: St Modwen			Ground Level:		Coordinates:		Date: 24 & 27/07/09		
Installation	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records	
					Depth	Sample			Test
						Type	No.		
	Grey, weathered MUDSTONE. COAL.	-21.20		21.00	21.00				
	Grey MUDSTONE.	-21.70							
	Brown SANDSTONE. (Slow penetration).			22.00	22.00				
				23.00	23.00				
	End of Log	-25.00		24.00	24.00				
				25.00	25.00				
				26.00	26.00				
				27.00	27.00				
				28.00	28.00				
				29.00	29.00				
				30.00	30.00				
Notes: U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test						Logged by: AD			
Remarks Trial pit dug to 1.20m. 63mm diameter standpipe installed to 19.00m, response zone between 16m and 18m bg. Groundwater encountered from 18.00m.						Scale:			
Notes Oily odour @ 3.00m.						FIG:			

REC Geotechnical Log						Borehole: DME2			
 Resource & Environmental Consultants Ltd.			Equipment and Methods: Open Hole Rig						
			Location: Coed Darcy, Neath (80132)						
Client: St Modwen			Ground Level:		Coordinates:		Date: 28/07/09		
Installation	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records	
					Depth	Sample			Test
						Type	No.		
	Ground Surface	0.00		0.00	0.00				
	MADE GROUND : Crusher run (compact).	-0.30							
	MADE GROUND : SILTS.	-0.60							
	MADE GROUND : CLAY/SILT.	-1.00							
	MADE GROUND : Compact GRAVEL fill.								
				2.00	2.00				
				3.00	3.00				
				4.00	4.00				
		-4.50		5.00	5.00				
	Compact GRAVEL of brown sandstone. (Slow penetration).								
				7.00	7.00				
	-7.30		8.00	8.00					
Light brown, sandy GRAVEL.									
		-10.00	10.00	10.00					

Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test

Remarks

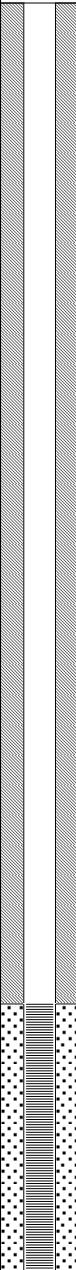
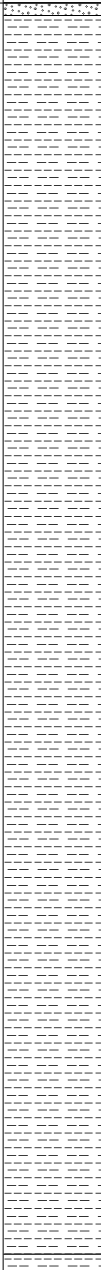
Trial pit dug to 1.00m. 63mm diameter standpipe installed to 21.00m.
Oily water seepage from GL to 0.30m. Hole collapsing @ 0.30m to 0.60m, full of water.

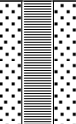
Notes

Logged by: AD

Scale:

FIG:

REC Geotechnical Log							Borehole: DME2		
 Resource & Environmental Consultants Ltd.			Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)						
Client: St Modwen			Ground Level:		Coordinates:		Date: 28/07/09		
Installation	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records	
					Depth	Sample			Test
						Type	No.		
	Light brown, sandy GRAVEL. CLAY with weathered mudstone bands.			11.00	11.00				
				12.00	12.00				
				13.00	13.00				
				14.00	14.00				
				15.00	15.00				
				16.00	16.00				
				17.00	17.00				
				18.00	18.00				
				19.00	19.00				
				-20.00	20.00				
				Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test					
Remarks Trial pit dug to 1.00m. 63mm diameter standpipe installed to 21.00m. Oily water seepage from GL to 0.30m. Hole collapsing @ 0.30m to 0.60m, full of water.							Scale:		
Notes							FIG:		

REC Geotechnical Log							Borehole: DME2		
 Resource & Environmental Consultants Ltd.		Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)							
Client: St Modwen		Ground Level:		Coordinates:		Date: 28/07/09			
Installat ion	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records	
					Depth	Sample Type No.	Test		
	CLAY with weathered mudstone bands.	-21.20		21.00	21.00				
	Brown SANDSTONE. (Slow penetration).			22.00	22.00				
23.00				23.00					
24.00				24.00					
25.00				25.00					
26.00		26.00							
		-28.00		27.00	27.00				
				28.00	28.00				
				29.00	29.00				
	End of Log			30.00	30.00				
Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test Remarks Trial pit dug to 1.00m. 63mm diameter standpipe installed to 21.00m. Oily water seepage from GL to 0.30m. Hole collapsing @ 0.30m to 0.60m, full of water. Notes							Logged by: AD Scale: FIG:		

Borehole Record - Cable Percussion

Borehole Number: DM 16

Project Number: 80132

Contract Name: Llandarcy

Client: St Modwen

Engineer: PT

Date Started: 22/7/09

Date Completed: 23/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment:

REC
Resource & Environmental Consultants Ltd
Osprey House
Pacific Quay
Broadway
Manchester, M50 2UE
Tel: 0161 868 1300 / Fax: 0161 868 1301
www.recltd.co.uk

SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
		MADE GROUND: CONCRETE.	0.15					
1.0		MADE GROUND: Black silty sandy GRAVEL and COBBLE of concrete, brick, clinker, ash and sandstone. Slight hydrocarbon odour.		G V	1.00		0.80m bgl.	
2.0		Soft grey silty CLAY with some brown mottling. Dark grey staining and some fine to medium sandstone gravel. Slight hydrocarbon/solvent odour. Oil sheen.	1.80	G V	2.00			
3.0		Compact brown silty sandy GRAVEL and COBBLES with some clayey layers/ patches. Gravel of sub-angular to sub-rounded sandstone. Cobbles of sub-angular to rounded sandstone. Slight hydrocarbon/solvent odour. Very limited drilling recovery.	2.50	B	3.00-4.00			
4.0								
5.0								

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling: 1.5 hours...Terminated at 6.6 by Atkins due to slow progress.

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 0.80m bgl.

Date: 12/8/09

Status: Prelim 1

Borehole Record - Cable Percussion

Borehole Number: DM 16

Project Number: 80132

Contract Name: Llandarcy

Client: St Modwen

Engineer: PT

Date Started: 22/7/09

Date Completed: 23/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment:



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SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
6.0		Dense brown silty sandy GRAVEL and COBBLES with some clayey layers/patches. Gravel of sub-angular to sub-rounded sandstone. Cobbles of sub-angular to rounded sandstone. Slight hydrocarbon/solvent odour. Very limited drilling recovery.	6.60	B	5.50-6.00			
7.0		Borehole terminated at 6.60m bgl.						
8.0								
9.0								
10.0								

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling: 1.5 hours...Terminated at 6.6 by Atkins due to slow progress.

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 0.80m bgl.

Date: 12/8/09

Status: Prelim 1

Borehole Record - Cable Percussion

Borehole Number: DM 15

Project Number: 80132

Contract Name: Llandarcy

Client: St Modwens

Engineer: PT

Date Started: 23/7/09

Date Completed: 23/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Cable percussion



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SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
		MADE GROUND: CONCRETE.	0.15					
		MADE GROUND: Compact grey SAND and GRAVEL of concrete, brick, sandstone, clinker and ash.		G	0.50			
		Slight hydrocarbon odour.	0.80					
1.0		MADE GROUND: Dark grey silty sandy GRAVEL and COBBLE of concrete, brick, ash and sandstone with grey clayey patches.		G V	1.00			
		Slight hydrocarbon odour.						
			1.80					
2.0		Brown sandy gravelly CLAY with grey/brown sandy pockets and dark brown organic inclusions. Gravel and cobbles are of sub-angular to sub-rounded sandstone.		G V	2.00-2.50			
		No detectable odour.						
3.0								
				G	3.50-4.00			
4.0								
			4.30					
		Stiff grey silty gravelly CLAY with brown pockets and some cobbles. Gravel is of fine to medium sub-angular to sub-rounded sandstone.		G V	4.40			
			4.70					
5.0								

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling:

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 0.80m bgl.

Date:

Status:

Borehole Record - Cable Percussion

Borehole Number: DM 15

Project Number: 80132

Contract Name: Llandarcy

Client: St Modwens

Engineer: PT

Date Started: 23/7/09

Date Completed: 23/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Cable percussion



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SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
		Stiff to very stiff brown silty gravelly CLAY with cobbles with black coaly flecks and silty laminations/partings. Gravel of fine to medium claystone and coarse sandstone. Sandstone cobbles. No odour.	5.70	G	5.40			
6.0		Borehole terminated at 5.70m bgl.						
7.0								
8.0								
9.0								
10.0								

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling:

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 0.80m bgl.

Date:

Status:

Borehole Record - Cable Percussion

Borehole Number: DM 13

Project Number: 80132

Contract Name: Llandarcy

Client: St Modwen

Engineer: PT

Date Started: 23/7/09

Date Completed: 23/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment:



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SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
		MADE GROUND: CONCRETE.	0.15					
1.0		MADE GROUND: Black sandy GRAVEL and cobbles of sandstone, brick, ash, clinker and concrete. Some clayey patches toward base of unit. Slight hydrocarbon odour and heavy sheen.		G	0.50			
				G V	1.00			
2.0			2.00					
		Firm to stiff dark grey/brown very gravelly CLAY with cobbles. Gravel of fine sub-rounded claystone and fine to coarse sub-angular to sub-rounded sandstone. Cobbles of sub-angular to rounded sandstone.		B SPT G	2.00 2.00-2.45	S: 2/6/5/6/6/5 N=22		
3.0		No odour.						
		Becoming soft and sandy from 4.00m bgl-4.70m bgl.		G V	3.00			
4.0								
				G V	4.00			
5.0			4.70					
		Brown clayey gravelly SAND with pockets of grey sand and brown sandy clay. Gravel of fine to coarse sub-angular to sub-rounded sandstone.		G V	5.00			
		No odour.						
6.0				G V	6.00			

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling:

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 1.00m bgl.

Date: 12/8/09

Status: Prelim 1

Borehole Record - Cable Percussion

Borehole Number: DM 13

Project Number: 80132

Contract Name: Llandarcy

Client: St Modwen

Engineer: PT

Date Started: 23/7/09

Date Completed: 23/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment:



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SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
7.0		Brown clayey gravelly SAND with pockets of grey sand and brown sandy clay. Gravel of fine to coarse sub-angular to sub-rounded sandstone. No odour.	7.00	G	7.00			
		Borehole completed at 7.00m bgl.						
8.0								
9.0								
10.0								
11.0								
12.0								

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling:

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 1.00m bgl.

Date: 12/8/09

Status: Prelim 1

Borehole Record - Cable Percussion

Borehole Number: DM 10

Project Number: 80132

Contract Name: Llandarcy

Client: St Modwen

Engineer: PT

Date Started: 23/7/09

Date Completed: 23/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Cable percussion



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SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
		MADE GROUND: CONCRETE.	0.15					
		MADE GROUND: Hardcore sub-base.	0.25					
		MADE GROUND: Very compact grey quartzite (railway ballast), clinker and slag fill.		G V	0.50			
1.0		Distinct solvent odour (in water).		G	1.00-2.00		Strike at 1.00m bgl.	
2.0				G	2.00-3.00			
3.0		Compact brown clayey GRAVEL and COBBLES with brown silty clay and grey sand bands/pockets. Gravel of fine sub-rounded claystone and sub-rounded to sub-angular fine to coarse sandstone.	2.90	G V	3.00			
4.0		No detectable odour.		G V	4.00-5.00			
5.0								

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling:

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 1.00m bgl.

Date:

Status:

Borehole Record - Cable Percussion

Borehole Number: DM 10

Project Number: 80132

Contract Name: Llandarcy

Client: St Modwen

Engineer: PT

Date Started: 23/7/09

Date Completed: 23/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Cable percussion



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SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
6.0		Brown clayey GRAVEL and COBBLES with brown silty clay and grey sand bands/pockets. Gravel of fine sub-rounded claystone and sub-rounded to sub-angular fine to coarse sandstone. No detectable odour.		G	6.00-6.50			
7.0			7.00	G	7.00			
7.0		Borehole completed at 7.00m bgl.						
8.0								
9.0								
10.0								

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling:

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 1.00m bgl.

Date:

Status:

Borehole Record - Cable Percussion

Borehole Number: DM 08

Project Number: 80132

Contract Name: Llandarcy

Client: St Modwen

Engineer: PT

Date Started: 22/7/09

Date Completed: 22/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment:



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SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
		MADE GROUND: CONCRETE.	0.20					
		MADE GROUND: Compact crushed brick, concrete and stone sub-base.	0.40					
		MADE GROUND: CONCRETE.	0.50	D	0.50			
1.0		MADE GROUND: Grey sandy GRAVEL and COBBLES of crushed concrete, brick and sandstone.		D	1.00			
		Slight hydrocarbon odour. Sheen on surface.						
2.0				D	2.00-3.00			
3.0								
			3.30					
		MADE GROUND: Loose black gravelly sand ash.						
			3.60					
4.0		Grey silty CLAY.		D	3.80			
		Hydrocarbon odour.						
			4.30					
				D	4.50			

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling: 1 hour

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 3.30m bgl.

Date:

Status:

Borehole Record - Cable Percussion

Borehole Number: DM 08

Project Number: 80132

Contract Name: Llandarcy

Client: St Modwen

Engineer: PT

Date Started: 22/7/09

Date Completed: 22/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment:



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SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
5.0		Grey silty CLAY with browner sandy clay patches and fine silty laminations. Occasional brown woody inclusions. Slight hydrocarbon odour.	5.00	D	5.50			
		Grey/brown silty CLAY with grey mottling.	6.00					
6.0		Brown silty gravelly CLAY with some cobbles. Gravel of fine to coarse sub-angular to sub-rounded sandstone and rounded sandstone and quartzite cobbles. Possible slight hydrocarbon odour.	6.80	D	6.30			
7.0		Brown clayey silty GRAVEL and COBBLES. Gravel of sub-angular to rounded sandstone and weak sandstone. Cobbles of sub-rounded to tabular sandstone. Silt sandy lamination with some black coaly/peaty inclusions. No odour.		D	7.00			
8.0				D	8.00			
9.0				D	9.00			

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling: 1 hour

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 3.30m bgl.

Date:

Status:

Borehole Record - Cable Percussion

Borehole Number: DM 08

Project Number: 80132

Contract Name: Llandarcy

Client: St Modwen

Engineer: PT

Date Started: 22/7/09

Date Completed: 22/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment:



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SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
10.0		Brown clayey silty GRAVEL and COBBLES. Gravel of sub-angular to rounded sandstone and weak sandstone. Cobbles of sub-rounded to tabular sandstone. Silt sandy lamination with some black coaly/peaty inclusions. No odour.	10.00					
11.0		Borehole completed at 10.00m bgl.						
12.0								
13.0								

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling: 1 hour

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 3.30m bgl.

Date:

Status:

Borehole Record - Cable Percussion

Borehole Number: DM 07

Project Number: 80132

Contract Name: Llandarcy

Client: St Modwens

Engineer: PT

Date Started: 21/7/09

Date Completed: 21/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Cable percussion



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SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
1.0		MADE GROUND: Dense grey/brown sandy GRAVEL and COBBLES of sandstone, quartzite (railway ballast), brick, clinker and concrete. Some plastic. Becoming clay bound gravel and cobble below 1.00m bgl. Hydrocarbon odour. Stronger below water at 0.50m bgl.	1.80	B SPT	0.50 1.00-1.45	S: 6/6/7/10/20/13 N=50	0.50 m bgl	
2.0		Medium dense grey very silty sandy GRAVEL and COBBLES. Gravel and cobbles of sub-angular sandstone. Some black staining in silty patches. Strong hydrocarbon odour.	2.70	B G V SPT G	1.80-2.00 2.00-2.45	S: 2/2/3/5/8/8 N=24		
3.0		Very dense grey slightly silty sandy GRAVEL and COBBLES. Gravel and cobbles are sub-angular to sub-rounded of sandstone. Strong hydrocarbon/solvent odour.		SPT B	3.00-3.15 3.00-3.50	S: -/17/50/-/-/- N=>50		
4.0				SPT	4.00-4.15	S: -/12/50/-/-/- N=>50		
5.0				B	4.50-5.00			

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling: 1 hour

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 0.50m bgl.

Date:

Status:

Borehole Record - Cable Percussion

Borehole Number: DM 07

Project Number: 80132

Contract Name: Llandarcy

Client: St Modwens

Engineer: PT

Date Started: 21/7/09

Date Completed: 21/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Cable percussion



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SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
5.30		Very stiff grey sandy SILT with some gravel and cobbles of sub-rounded to sub-angular sandstone.	5.30	SPT G B G V	5.20-5.65 5.20-5.65	S: 3/3/4/5/7/7 N=23		
5.80		Slight hydrocarbon odour. Heavy sheen on surface.	5.80					
6.0		Very dense grey/brown clayey GRAVEL and COBBLES with band of brown clay.		SPT	6.30-6.45	S: -/25/50/-/-/- N=>50		
7.0		No significant odour but heavy sheen.		B	7.00-7.50			
8.0		Limited drilling recovery.		SPT	7.80-8.25	S: -/12/50/-/-/- N=>50		
9.0				G	8.50			
9.50			9.50	G	9.50			
10.0								

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling: 1 hour

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 0.50m bgl.

Date:

Status:

Borehole Record - Cable Percussion

Borehole Number: DM 07

Project Number: 80132

Contract Name: Llandarcy

Client: St Modwens

Engineer: PT

Date Started: 21/7/09

Date Completed: 21/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Cable percussion



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SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
11.0		Stiff grey silty CLAY some light grey silty laminations and dark brown peaty inclusions and layers and occasional woody material. No odour.		G V	10.50			
				SPT	10.80-11.25	S: 4/4/5/5/7/8 N=25		
			11.80					
12.0		Borehole completed at 11.80m bgl.						
13.0								
14.0								
15.0								

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling: 1 hour

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 0.50m bgl.

Date:

Status:

Borehole Record - Cable Percussion

Borehole Number: DM 04

Project Number: 80132

Contract Name: Llandarcy

Client: St Modwen

Engineer: PT

Date Started: 20/7/09

Date Completed: 20/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Cable percussion



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SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
		MADE GROUND: Compact dark grey silty sandy GRAVEL of brick, ash, clinker, sandstone and stone chippings and some cobbles of concrete. Slight hydrocarbon odour.	0.90	G	0.40			
1.0		Firm grey clayey SILT with brown silty partings/inclusions and brown organic inclusions (woody) and some sub-rounded to sub-angular fine to medium gravel. Hydrocarbon odour...Odour becoming stronger with depth.		G	1.00			
2.0				G	2.00			
			2.80					
3.0		Soft to firm brown sandy CLAY with some fine to coarse sub-rounded to sub-angular sandstone gravel and occasional sandstone cobbles. Strong hydrocarbon odour.		G	3.00			
4.0				G	4.00			
			4.90					
5.0				G	5.00			

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling: 7.90m bgl-8.70m bgl for 1 hour.

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 6.30m bgl...5.90m bgl on standing.

Date:

Status:

Borehole Record - Cable Percussion

Borehole Number: DM 04

Project Number: 80132

Contract Name: Llandarcy

Client: St Modwen

Engineer: PT

Date Started: 20/7/09

Date Completed: 20/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Cable percussion



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SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
6.0		Very stiff brown slightly sandy silty CLAY with some fine to coarse sandstone and weathered sandstone (weak) gravel and fine clay stone gravel and grey sandy inclusions. Strong hydrocarbon odour becoming slight odour toward base.	5.90	G	5.80			
		Brown silty sandy CLAY with lenses of grey sand and some sandstone gravel.	6.90					
7.0		Grey very silty SAND with light grey sandy inclusions and some dark brown peaty inclusions. Slight hydrocarbon odour.	7.50	G V	7.00			
		Grey/brown silty gravelly SAND. Gravel of fine to coarse sub-angular to sub-rounded sandstone. Slight hydrocarbon odour.	7.90	G	7.60			
8.0		Brown slightly sandy silty CLAY with some fine to coarse sandstone and weathered sandstone (weak) gravel and fine clay stone gravel and grey sandy inclusions. Strong hydrocarbon odour becoming slight odour toward base. Borehole terminated at 8.70m bgl.	8.70					
9.0								
10.0								

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling: 7.90m bgl-8.70m bgl for 1 hour.

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 6.30m bgl...5.90m bgl on standing.

Date:

Status:

Borehole Record - Cable Percussion

Borehole Number: DM 03

Project Number: 80132

Contract Name: Llandarcy

Client: St Modwen

Engineer: PT

Date Started: 20/7/09

Date Completed: 21/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Cable percussion



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SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
		MADE GROUND: Tarmac.	0.20					
		MADE GROUND: Re-inforced CONCRETE.						
		MADE GROUND: Compact dark grey silty sandy GRAVEL and COBBLE of concrete, brick, sandstone, stone chips and ash.	0.60 0.70	G	0.50			
1.0		Hydrocarbon odour.						
		MADE GROUND: CONCRETE slab.						
2.0		Loose grey silty gravelly SAND with cobbles. Gravel of sub-angular to sub-rounded fine to coarse sandstone. Cobbles of sub-angular to tabular sandstone.		G V	1.50			
		Hydrocarbon odour.						
3.0				G V	2.50			
				G V	3.00			
3.50								
4.0		Grey brown sandy clayey GRAVEL with cobbles. Gravel of medium to coarse sub-angular sandstone. Cobbles of sub-angular sandstone.		G V	4.00			
		Hydrocarbon odour.						
		Very limited recovery from 4.50m bgl-5.50m bgl except cobbles (siltstone and sandstone).						
5.0								

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling: 0.60m bgl-07.0m bgl for 45 mins...5.50m bgl-7.50m bgl for 1 hour.

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 0.25m bgl.

Date:

Status:

Borehole Record - Cable Percussion

Borehole Number: DM 03

Project Number: 80132

Contract Name: Llandarcy

Client: St Modwen

Engineer: PT

Date Started: 20/7/09

Date Completed: 21/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Cable percussion



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SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
			5.50					
6.0		Brown/grey very gravelly SAND and cobbles. Sub-angular to rounded sandstone gravel and rounded cobbles of sandstone and quartz. Becoming silty and orange/brown toward base of unit. Slight hydrocarbon/solvent odour.		G V	6.50			
7.0				G V	7.00			
			7.50	G	7.50			
8.0		Grey/brown clayey sandy SILT with orange sandy patches and some gravel and rounded cobbles of sandstone. Slight solvent odour.						
			8.50					
9.0		Brown slightly silty sandy GRAVEL and COBBLES. Gravel of sub-angular to sub-rounded sandstone and cobbles of rounded well cemented hard sandstone. Slight solvent odour.		G	9.40			
			9.60					
10.0				G	10.00			

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling: 0.60m bgl-07.0m bgl for 45 mins...5.50m bgl-7.50m bgl for 1 hour.

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 0.25m bgl.

Date:

Status:

Borehole Record - Cable Percussion

Borehole Number: DM 03

Project Number: 80132

Contract Name: Llandarcy

Client: St Modwen

Engineer: PT

Date Started: 20/7/09

Date Completed: 21/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Cable percussion



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SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
11.0		Dense brown very silty SAND with some fine to coarse sub-angular to sub-rounded sandstone gravel and some black organic coaly flecks. No noticeable odour. Becoming more clayey from 11.00m bgl to 11.50m bgl.	11.50	G	11.00			
12.0		Grey silty fine SAND with clayey laminations and inclusions and some coarse sand/fine gravel of sandstone. No noticeable odour.	12.20	G	12.00			
13.0		Very stiff grey slightly silty CLAY. No odour. Very stiff grey CLAY. No odour.	13.70	D V G	12.40 13.00			
14.0		Very dense grey/brown SAND and GRAVEL of sandstone.	14.20	G	14.00			
15.0		Borehole terminated at 14.20m bgl on hard brown sandstone. Possible bedrock.						

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling: 0.60m bgl-07.0m bgl for 45 mins...5.50m bgl-7.50m bgl for 1 hour.

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 0.25m bgl.

Date:

Status:

Borehole Record - Cable Percussion

Borehole Number: SBH 06

Project Number: 80132

Contract Name: Llandarcy

Client: St Modwen

Engineer: PT

Date Started: 15/7/09

Date Completed: 15/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Cable percussion



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SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
1.0		MADE GROUND: Soft grey sandy SILT and black peat with some ash and clayey patches.	0.90	D	0.50			
2.0		Firm brown/grey silty CLAY.	2.00	D	1.00			
3.0		Brown/grey gravelly sandy SILT. Gravel is fine to coarse sub-angular to tabular of sandstone.	4.00	D	2.00			
4.0		Brown GRAVEL and some cobbles of sandstone...hydrocarbon odour.	4.20	W D	4.00 4.10			
5.0		Brown/grey silty SAND and GRAVEL of fine to coarse angular to sub-angular sandstone...strong hydrocarbon odour.	4.50	G	4.50			
6.0		Borehole terminated at 4.50m bgl due to refusal.						

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling: 30 mins

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 4.00m bgl.

Date:

Status:

Borehole Record - Cable Percussion

Borehole Number: SBH 05

Project Number: 80132

Contract Name: Llandarcy

Client: St Modwen

Engineer: PT

Date Started: 15/7/09

Date Completed: 15/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Cable percussion



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SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
1.0		MADE GROUND: Compact dark grey/black very sandy GRAVEL of clinker and ash. Gravel is fine to coarse sub-angular to angular.	1.30	D	0.50			
				D	1.00			
2.0		Firm patchy black/dark grey slightly silty CLAY. Strong hydrocarbon odour.	2.00	D	1.50			
3.0		Firm grey with dark grey patches slightly gravelly sandy SILT. Becoming gravelly with depth. Gravel of fine to coarse sandstone. Strong hydrocarbon odour.	3.90	D	2.50			
4.0		Dense grey silty gravelly SAND. Gravel is fine to coarse of sandstone with some sandstone cobbles. Strong hydrocarbon odour.	4.80	B	4.00-4.50			
5.0				B	5.00-5.30			

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling: 4.80m bgl-5.70m bgl for 45 mins

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 4.80m bgl.

Date:

Status:

Borehole Record - Cable Percussion

Borehole Number: SBH 05

Project Number: 80132

Contract Name: Llandarcy

Client: St Modwen

Engineer: PT

Date Started: 15/7/09

Date Completed: 15/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Cable percussion



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SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
		Dark grey/brown slightly silty sandy sandstone GRAVEL and COBBLES. Gravel is fine to coarse sub-angular.	5.80					
6.0		Borehole terminated at 5.80m bgl due to refusal on obstruction of sandstone.						
7.0								
8.0								
9.0								
10.0								

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling: 4.80m bgl-5.70m bgl for 45 mins

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 4.80m bgl.

Date:

Status:

Borehole Record - Cable Percussion

Borehole Number: SBH 04

Project Number: 80132

Contract Name: Coed Darcy

Client: St Mowden

Engineer: PT

Date Started: 14/7/09

Date Completed: 14/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Cable percussion



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SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
1.0		MADE GROUND: Red/grey sandy GRAVEL and COBBLE of crushed brick and concrete.	1.50	D	0.50			
2.0		Soft grey sandy silty CLAY.	2.80	D	2.00			
3.0		Loose grey silty SAND.	3.00	D	3.00			
4.0		Soft brown gravelly sandy CLAY. Gravel is fine to coarse sub-angular of sandstone...Strong hydrocarbon odour.		W	3.10			
5.0				D	4.00			
					5.00			

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling: 1.50m bgl for 30 mins

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 3.10m bgl.

Date: 30/7/09

Status: Prelim 1

Borehole Record - Cable Percussion

Borehole Number: SBH 04

Project Number: 80132

Contract Name: Coed Darcy

Client: St Mowden

Engineer: PT

Date Started: 14/7/09

Date Completed: 14/7/09

Elevation AOD (m): N/A

Co-ordinates: N/A

Drilling Equipment: Cable percussion



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SUBSURFACE PROFILE

SAMPLES AND IN-SITU TESTING

Depth (mbgl)	Legend	Description	Depth of Strata (mbgl)	Type	Depth (mbgl)	In-Situ Testing SPT / U100	Water Level (mbgl)	Monitoring Installation
		Soft brown gravelly sandy CLAY. Gravel is fine to coarse sub-angular of sandstone...Strong hydrocarbon odour.	5.80					
6.0		Borehole terminated at 5.80m bgl.						
7.0								
8.0								
9.0								
10.0								

Key

B. Bulk (Bag)

W. Water

U100. 100mm Undisturbed

U38. 38mm Undisturbed Sample

SPT. Standard Penetration Test

D. Disturbed

G. Amber Glass Jar / Bottle

CPT. Cone Penetration Test

U100. Blows (Recovery mm)

V. 40ml Glass Vial

T. Plastic Tub

N. 'N' Value

HV. Hand Shear Vane

PID. Photo Ionisation Detector

Notes

Chiselling: 1.50m bgl for 30 mins

Services: Prior to drilling the location was scanned with a Cable Avoidance Tool (CAT).

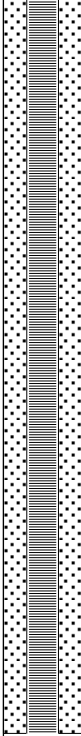
Addition of water: Limited amounts of water were added to aid drilling in hard strata.

Casing diameter: 150mm

Groundwater: Water strike at 3.10m bgl.

Date: 30/7/09

Status: Prelim 1

REC Geotechnical Log						Borehole: DME20			
 Resource & Environmental Consultants Ltd.		Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)							
Client: St Modwen		Ground Level:		Coordinates:		Date: 30/07/09			
Installat ion	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records	
					Depth	Sample			Test
						Type	No.		
 	Ground Surface	0.00		0.00	0.00				
	MADE GROUND : Concrete.								
	MADE GROUND : SILTS and GRAVELS.	-1.00		1.00	1.00				
				2.00	2.00				
				3.00	3.00				
		-4.00		4.00	4.00				
	End of Log			5.00	5.00				
Notes: U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test Remarks 63mm diameter standpipe installed to 4.00m. Strong odour and water at surface. Notes						Logged by: AD Scale: FIG:			

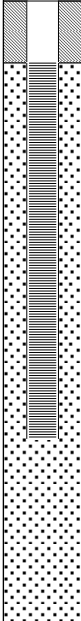
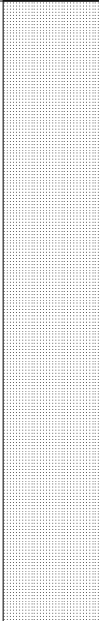
REC Geotechnical Log						Borehole: DME19			
 Resource & Environmental Consultants Ltd.			Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)						
Client: St Modwen			Ground Level:		Coordinates:		Date: 30 & 31/07/09		
Installation	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records	
					Depth	Sample			Test
						Type	No.		
	Ground Surface	0.00		0.00	0.00				
	MADE GROUND : Crusher run.	-0.30							
	Soft, wet CLAY.	-0.40							
	CLAY/SILT.								
	SILTS/CLAYS	-1.20		1.00	1.00				

REC Geotechnical Log						Borehole: DME17			
 Resource & Environmental Consultants Ltd.		Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)							
Client: St Modwen		Ground Level:		Coordinates:		Date: 30/07/09			
Installat ion	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records	
					Depth	Sample			Test
						Type	No.		
	Ground Surface	0.00		0.00	0.00				
	MADE GROUND : Concrete.	-0.30							
	MADE GROUND : Compact fill.								
				1.00	1.00				
				2.00	2.00				
				3.00	3.00				
	SAND and GRAVEL.	-3.10							
				4.00	4.00				
				5.00	5.00				
				6.00	6.00				
CLAY.	-5.60								
			7.00	7.00					
			8.00	8.00					
			9.00	9.00					
SANDSTONE.	-9.00								
			10.00	10.00					
	End of Log	-10.00							
Notes: U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test Remarks 63mm diameter standpipe installed to 9.00m. Oily fill/heavy diesel smell between 0.30m and 3.10m bgl. Water from 0.80m. Notes						Logged by: AD			
						Scale:			
						FIG:			

REC Geotechnical Log						Borehole: DME11			
 Resource & Environmental Consultants Ltd.			Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)						
Client: St Modwen			Ground Level:		Coordinates:		Date: 28 & 29/07/09		
Installation	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records	
					Depth	Sample			Test
						Type	No.		
	Ground Surface	0.00		0.00	0.00				
	MADE GROUND : Crusher run (compact).	-0.30							
	MADE GROUND : Concrete.	-0.80							
	MADE GROUND : Compact fill.			1.00	1.00				
				2.00	2.00				
		-3.00		3.00	3.00				
	SAND and GRAVEL. (Hard slow penetration).			4.00	4.00				
				5.00	5.00				
				6.00	6.00				
				7.00	7.00				
			8.00	8.00					
			9.00	9.00					
		-10.00		10.00	10.00				

Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test		Logged by: AD
Remarks 63mm diameter standpipe installed to 23.50m. Strong gas odour with oil and diesel in water from 0.80m to 3.00m.		Scale:
Notes Water encountered @ 18.00		FIG:

REC Geotechnical Log						Borehole: DME11			
 Resource & Environmental Consultants Ltd.		Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)							
Client: St Modwen		Ground Level:		Coordinates:		Date: 28 & 29/07/09			
Installation	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records	
					Depth	Sample Type No.	Test		
	SAND and GRAVEL. (Hard slow penetration).	-12.10		11.00	11.00				
	Boulder CLAY with gravel.			12.00	12.00				
				13.00	13.00				
				14.00	14.00				
				15.00	15.00				
			16.00	16.00					
	Brown SANDSTONE. (Slow penetration).		17.00	17.00					
			18.00	18.00					
		-18.50		19.00	19.00				
				20.00	20.00				
		-20.00							
Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test Remarks 63mm diameter standpipe installed to 23.50m. Strong gas odour with oil and diesel in water from 0.80m to 3.00m. Notes Water encountered @ 18.00									Logged by: AD Scale: FIG:

REC Geotechnical Log							Borehole: DME11		
 Resource & Environmental Consultants Ltd.				Equipment and Methods: Open Hole Rig Location: Coed Darcy, Neath (80132)					
Client: St Modwen				Ground Level:		Coordinates:		Date: 28 & 29/07/09	
Installation	Description	Reduced	Legend	Depth (m)	Sample/Tests			Field Records	
					Depth	Sample			Test
						Type	No.		
	Brown SANDSTONE. (Slow penetration).			21.00	21.00				
				22.00	22.00				
				23.00	23.00				
				24.00	24.00				
				25.00	25.00				
				26.00	26.00				
				27.00	27.00				
				28.00	28.00				
				29.00	29.00				
				30.00	30.00				
	End of Log	-25.00							
Notes:U-undisturbed B-bulk D-disturbed SPT-standard penetration test U-U100 CPT-cone penetration test Remarks 63mm diameter standpipe installed to 23.50m. Strong gas odour with oil and diesel in water from 0.80m to 3.00m. Notes Water encountered @ 18.00									Logged by: AD Scale: FIG:

Appendix D. Laboratory Analysis (2009 GI)



Scientific Analysis Laboratories is a
limited company registered in England and
Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 172250-1

Date of Report: 07-Aug-2009

Customer: Atkins
Atkins Limited
Cornerstone House
Stafford Park 13
Telford
Shropshire
TF3 3AZ

Customer Contact: Mrs Michelle Lee

Customer Job Reference: 5041216

Date Job Recieved at SAL: 24-Jul-2009

Date Analysis Started: 29-Jul-2009

Date Analysis Completed: 07-Aug-2009

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs



Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager

Issued by :

Index to symbols used in 172250-1

Value	Description
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
AR	As Received
113	Results should be considered inaccurate due to being outside of the machines calibration range
13	Results have been blank corrected.
9	LOD raised due to dilution of sample
19	Due to high levels the analysis was conducted on a diluted sample
157	No obvious asbestos containing materials detected. Customers should be clear that this test does not confirm the absence of asbestos from the sample
U	Analysis is UKAS accredited
M	Analysis is MCERTS accredited
N	Analysis is not accredited

Notes

"Fill" samples are outside the scope of our MCERTS accreditation. Results are UKAS only

Method Index

Value	Description
T7	Probe
T21	OX/IR
T8	GC/FID
T161	Visual
T209	GC/MS(Head Space)(MCERTS)
T277	Grav (1 Dec) (40 C)
T206	GC/FID (MCERTS)
T6	ICP/OES
T207	GC/MS(MCERTS)
T162	Grav (1 Dec) (105 C)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Asbestos(Screen Only)	T161	AR			N	010,046,049
pH	T7	AR			M	001,007-008,010-012,015,018,020,042,044,046-047
pH	T7	AR			U	049
Total Organic Carbon	T21	M40	0.1	%	N	001,011-012,022-023,032,036,039,041-042,044-045,047
Total Petroleum Hydrocarbons	T8	M105	1.0	mg/kg	U	048
Total Petroleum Hydrocarbons	T8	M105	1	mg/kg	M	001,007-008,011-012,023,036,041-042,044-047
Arsenic	T6	M40	2	mg/kg	M	001,007-008,010-012,015,018,020,042,044,046-047
Arsenic	T6	M40	2.0	mg/kg	U	049
Cadmium	T6	M40	1	mg/kg	M	001,007-008,010-012,015,018,020,042,044,046-047
Cadmium	T6	M40	1.0	mg/kg	U	049
Chromium	T6	M40	1	mg/kg	M	001,007-008,010-012,015,018,020,042,044,046-047
Chromium	T6	M40	1.0	mg/kg	U	049
Copper	T6	M40	1	mg/kg	M	001,007-008,010-012,015,018,020,042,044,046-047
Copper	T6	M40	1.0	mg/kg	U	049
Lead	T6	M40	1	mg/kg	M	001,007-008,010-012,015,018,020,042,044,046-047
Lead	T6	M40	1.0	mg/kg	U	049
Mercury	T6	M40	1	mg/kg	M	001,007-008,010-012,015,018,020,042,044,046-047
Mercury	T6	M40	1.0	mg/kg	U	049
Nickel	T6	M40	1	mg/kg	M	001,007-008,010-012,015,018,020,042,044,046-047
Nickel	T6	M40	1.0	mg/kg	U	049
Selenium	T6	M40	3	mg/kg	M	001,007-008,010-012,015,018,020,042,044,046-047
Selenium	T6	M40	3.0	mg/kg	U	049
Zinc	T6	M40	1	mg/kg	M	001,007-008,010-012,015,018,020,042,044,046-047
Zinc	T6	M40	1.0	mg/kg	U	049
Moisture	T277	AR	0.1	%	N	001-025,027-050
Moisture @ 105 C	T162	AR	0.1	%	N	001-025,027-050
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	U	014,028,033,037,043
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	U	014,028,033,037,043
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	U	014,028,033,037,043
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	U	014,028,033,037,043
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	U	014,028,033,037,043
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
2-Chloronaphthalene	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
2-Chloronaphthalene	T207	M105	0.1	mg/kg	U	014,028,033,037,043
2-Chlorophenol	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
2-Chlorophenol	T207	M105	0.1	mg/kg	U	014,028,033,037,043
2-methyl phenol	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
2-methyl phenol	T207	M105	0.1	mg/kg	U	014,028,033,037,043
2-Methylnaphthalene	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
2-Methylnaphthalene	T207	M105	0.1	mg/kg	U	014,028,033,037,043
2-Nitroaniline	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
2-Nitroaniline	T207	M105	0.1	mg/kg	U	014,028,033,037,043
2-Nitrophenol	T207	M105	0.1	mg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
3-Nitroaniline	T207	M105	0.1	mg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
3/4-Methylphenol	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
3/4-Methylphenol	T207	M105	0.1	mg/kg	U	014,028,033,037,043
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	U	014,028,033,037,043
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	U	014,028,033,037,043
4-Chloroaniline	T207	M105	0.1	mg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	U	014,028,033,037,043
4-Nitroaniline	T207	M105	0.1	mg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
4-Nitrophenol	T207	M105	0.1	mg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
Acenaphthene	T207	M105	0.1	mg/kg	M	002-007,009-010,013,015-022,024-025,027,029-032,034-035,038-040,046-047,050
Acenaphthene	T207	M105	0.1	mg/kg	U	014,028,033,037,043,049
Acenaphthylene	T207	M105	0.1	mg/kg	U	002-007,009-010,013-022,024-025,027-035,037-040,043,046-047,049-050
Anthracene	T207	M105	0.1	mg/kg	U	002-007,009-010,013-022,024-025,027-035,037-040,043,046-047,049-050
Azobenzene	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Azobenzene	T207	M105	0.1	mg/kg	U	014,028,033,037,043
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	002-007,009-010,013,015-022,024-025,027,029-032,034-035,038-040,046-047,050
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	U	014,028,033,037,043,049
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	002-007,009-010,013,015-022,024-025,027,029-032,034-035,038-040,046-047,050
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	U	014,028,033,037,043,049
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	M	002-007,009-010,013,015-022,024-025,027,029-032,034-035,038-040,046-047,050
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	U	014,028,033,037,043,049
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	002-007,009-010,013,015-022,024-025,027,029-032,034-035,038-040,046-047,050
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	U	014,028,033,037,043,049
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	U	014,028,033,037,043
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	U	014,028,033,037,043
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	U	014,028,033,037,043
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	U	014,028,033,037,043
Butyl benzylphthalate	T207	M105	0.1	mg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
Carbazole	T207	M105	0.1	mg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
Chrysene	T207	M105	0.1	mg/kg	M	002-007,009-010,013,015-022,024-025,027,029-032,034-035,038-040,046-047,050
Chrysene	T207	M105	0.1	mg/kg	U	014,028,033,037,043,049
Di-n-butylphthalate	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Di-n-butylphthalate	T207	M105	0.1	mg/kg	U	014,028,033,037,043
Di-n-octylphthalate	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Di-n-octylphthalate	T207	M105	0.1	mg/kg	U	014,028,033,037,043
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	002-007,009-010,013,015-022,024-025,027,029-032,034-035,038-040,046-047,050
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	U	014,028,033,037,043,049
Dibenzofuran	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Dibenzofuran	T207	M105	0.1	mg/kg	U	014,028,033,037,043
Diethyl phthalate	T207	M105	0.1	mg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
Dimethyl phthalate	T207	M105	0.1	mg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Fluoranthene	T207	M105	0.1	mg/kg	M	002-007,009-010,013,015-022,024-025,027,029-032,034-035,038-040,046-047,050
Fluoranthene	T207	M105	0.1	mg/kg	U	014,028,033,037,043,049
Fluorene	T207	M105	0.1	mg/kg	M	002-007,009-010,013,015-022,024-025,027,029-032,034-035,038-040,046-047,050
Fluorene	T207	M105	0.1	mg/kg	U	014,028,033,037,043,049
Hexachlorobenzene	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Hexachlorobenzene	T207	M105	0.1	mg/kg	U	014,028,033,037,043
Hexachlorobutadiene	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Hexachlorobutadiene	T207	M105	0.1	mg/kg	U	014,028,033,037,043
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
Hexachloroethane	T207	M105	0.1	mg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	002-007,009-010,013,015-022,024-025,027,029-032,034-035,038-040,046-047,050
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	U	014,028,033,037,043,049
Isophorone	T207	M105	0.1	mg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
Naphthalene	T207	M105	0.1	mg/kg	M	002-007,009-010,013,015-022,024-025,027,029-032,034-035,038-040,046-047,050
Naphthalene	T207	M105	0.1	mg/kg	U	014,028,033,037,043,049
Nitrobenzene	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Nitrobenzene	T207	M105	0.1	mg/kg	U	014,028,033,037,043
Pentachlorophenol	T207	M105	0.1	mg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
Phenanthrene	T207	M105	0.1	mg/kg	M	002-007,009-010,013,015-022,024-025,027,029-032,034-035,038-040,046-047,050
Phenanthrene	T207	M105	0.1	mg/kg	U	014,028,033,037,043,049
Phenol	T207	M105	0.1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Phenol	T207	M105	0.1	mg/kg	U	014,028,033,037,043
Pyrene	T207	M105	0.1	mg/kg	M	002-007,009-010,013,015-022,024-025,027,029-032,034-035,038-040,046-047,050
Pyrene	T207	M105	0.1	mg/kg	U	014,028,033,037,043,049
PAH(total)	T207	M105	0.1	mg/kg	U	007,010,015,046-047,049
Benzene	T209	M105	10	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
M/P Xylene	T209	M105	10	µg/kg	U	014,028,033,037,043
Methyl tert-Butyl Ether	T209	M105	10	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Methyl tert-Butyl Ether	T209	M105	10	µg/kg	U	014,028,033,037,043
O Xylene	T209	M105	10	µg/kg	U	014,028,033,037,043
Toluene	T209	M105	10	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	N	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
TPH (C6-C8 aliphatic)	T209	M105	0.100	mg/kg	N	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
TPH (C8-C10 aliphatic)	T209	M105	0.100	mg/kg	N	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
TPH (C10-C12 aliphatic)	T8	M105	1	mg/kg	N	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	U	014,028,033,037,043
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	U	014,028,033,037,043
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	U	014,028,033,037,043
TPH (C6-C7 aromatic)	T209	M105	0.100	mg/kg	N	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
TPH (C7-C8 aromatic)	T209	M105	0.100	mg/kg	N	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
TPH (C8-C10 aromatic)	T209	M105	0.100	mg/kg	N	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
TPH (C10-C12 aromatic)	T8	M105	1	mg/kg	N	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
TPH (C12-C16 aromatic)	T8	M105	1	mg/kg	N	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	U	014,028,033,037,043
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	U	014,028,033,037,043
1,1,1,2-Tetrachloroethane	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
1,1,1,2-Tetrachloroethane	T209	M105	50	µg/kg	U	014,028,033,037,043
1,1,1-Trichloroethane	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
1,1,1-Trichloroethane	T209	M105	50	µg/kg	U	014,028,033,037,043
1,1,2,2-Tetrachloroethane	T209	M105	50	µg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
1,1,2-Trichloroethane	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
1,1,2-Trichloroethane	T209	M105	50	µg/kg	U	014,028,033,037,043
1,1-Dichloroethane	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
1,1-Dichloroethane	T209	M105	50	µg/kg	U	014,028,033,037,043
1,1-Dichloroethylene	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
1,1-Dichloroethylene	T209	M105	50	µg/kg	U	014,028,033,037,043
1,1-Dichloropropene	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
1,1-Dichloropropene	T209	M105	50	µg/kg	U	014,028,033,037,043
1,2,3-Trichloropropane	T209	M105	50	µg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
1,2,4-Trimethylbenzene	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
1,2,4-Trimethylbenzene	T209	M105	50	µg/kg	U	014,028,033,037,043
1,2-dibromoethane	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
1,2-dibromoethane	T209	M105	50	µg/kg	U	014,028,033,037,043
1,2-Dichlorobenzene	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
1,2-Dichlorobenzene	T209	M105	50	µg/kg	U	014,028,033,037,043

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
1,2-Dichloroethane	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
1,2-Dichloroethane	T209	M105	50	µg/kg	U	014,028,033,037,043
1,2-Dichloropropane	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
1,2-Dichloropropane	T209	M105	50	µg/kg	U	014,028,033,037,043
1,3,5-Trimethylbenzene	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
1,3,5-Trimethylbenzene	T209	M105	50	µg/kg	U	014,028,033,037,043
1,3-Dichlorobenzene	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
1,3-Dichlorobenzene	T209	M105	50	µg/kg	U	014,028,033,037,043
1,3-Dichloropropane	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
1,3-Dichloropropane	T209	M105	50	µg/kg	U	014,028,033,037,043
1,4-Dichlorobenzene	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
1,4-Dichlorobenzene	T209	M105	50	µg/kg	U	014,028,033,037,043
2,2-Dichloropropane	T209	M105	50	µg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
2-Chlorotoluene	T209	M105	50	µg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
4-Chlorotoluene	T209	M105	50	µg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
Benzene	T209	M105	10	µg/kg	U	014,028,033,037,043
Bromobenzene	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Bromobenzene	T209	M105	50	µg/kg	U	014,028,033,037,043
Bromochloromethane	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Bromochloromethane	T209	M105	50	µg/kg	U	014,028,033,037,043
Bromodichloromethane	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Bromodichloromethane	T209	M105	50	µg/kg	U	014,028,033,037,043
Bromoform	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Bromoform	T209	M105	50	µg/kg	U	014,028,033,037,043
Bromomethane	T209	M105	50	µg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
Carbon tetrachloride	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Carbon tetrachloride	T209	M105	50	µg/kg	U	014,028,033,037,043
Chlorobenzene	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Chlorobenzene	T209	M105	50	µg/kg	U	014,028,033,037,043
Chlorodibromomethane	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Chlorodibromomethane	T209	M105	50	µg/kg	U	014,028,033,037,043
Chloroethane	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Chloroethane	T209	M105	50	µg/kg	U	014,028,033,037,043
Chloroform	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Chloroform	T209	M105	50	µg/kg	U	014,028,033,037,043
Chloromethane	T209	M105	50	µg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
Cis-1,2-Dichloroethylene	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Cis-1,2-Dichloroethylene	T209	M105	50	µg/kg	U	014,028,033,037,043
Cis-1,3-Dichloropropene	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Cis-1,3-Dichloropropene	T209	M105	50	µg/kg	U	014,028,033,037,043
Dibromomethane	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Dibromomethane	T209	M105	50	µg/kg	U	014,028,033,037,043
Dichlorodifluoromethane	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Dichlorodifluoromethane	T209	M105	50	µg/kg	U	014,028,033,037,043
Dichloromethane	T209	M105	50	µg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
EthylBenzene	T209	M105	10	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
EthylBenzene	T209	M105	10	µg/kg	U	014,028,033,037,043
Isopropyl benzene	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Isopropyl benzene	T209	M105	50	µg/kg	U	014,028,033,037,043
m/P Xylene	T209	M105	10	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
n-Propylbenzene	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
n-Propylbenzene	T209	M105	50	µg/kg	U	014,028,033,037,043
O Xylene	T209	M105	10	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
p-Isopropyltoluene	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
p-Isopropyltoluene	T209	M105	50	µg/kg	U	014,028,033,037,043
S-Butylbenzene	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
S-Butylbenzene	T209	M105	50	µg/kg	U	014,028,033,037,043
Styrene	T209	M105	50	µg/kg	U	002-006,009,013-014,016-022,024-025,027-035,037-040,043,050
T-Butylbenzene	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
T-Butylbenzene	T209	M105	50	µg/kg	U	014,028,033,037,043
Tetrachloroethylene	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Tetrachloroethylene	T209	M105	50	µg/kg	U	014,028,033,037,043
Toluene	T209	M105	10	µg/kg	U	014,028,033,037,043
Trans-1,2-Dichloroethene	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Trans-1,2-Dichloroethene	T209	M105	50	µg/kg	U	014,028,033,037,043
Trans-1,3-Dichloropropene	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Trans-1,3-Dichloropropene	T209	M105	50	µg/kg	U	014,028,033,037,043
Trichloroethylene	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Trichloroethylene	T209	M105	50	µg/kg	U	014,028,033,037,043
Trichlorofluoromethane	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Trichlorofluoromethane	T209	M105	50	µg/kg	U	014,028,033,037,043
Vinyl chloride	T209	M105	50	µg/kg	M	002-006,009,013,016-022,024-025,027,029-032,034-035,038-040,050
Vinyl chloride	T209	M105	50	µg/kg	U	014,028,033,037,043



SAL Reference: 172250														
Customer Reference: 5041216														
Soil		Analysed as Soil												
MCERTS Preparation														
SAL Reference					172250 042	172250 043	172250 044	172250 045	172250 046	172250 047	172250 048	172250 049	172250 050	
Customer Sample Reference					DME 10 D5	DME13 D2	DME13 D5	DME13 D6	DME15 D2	DME15 D3	DME15 D4	DME16 D1	DME16 D2	
Type					Clay	Fill	Clay	Clay	Clay	Clay	Fill	Fill	Clay	
Determinand	Method	Test Sample	LOD	Units										
Moisture	T277	AR	0.1	%	8.2	-	11	-	14	10	-	16	-	
Moisture @ 105 C	T162	AR	0.1	%	12	56	8.6	13	11	13	8.3	20	11	

SAL Reference: 172250											
Customer Reference: 5041216											
Soil		Analysed as Soil									
Heavy Metals(9)											
SAL Reference				172250 001	172250 007	172250 008	172250 010	172250 011	172250 012	172250 015	
Customer Sample Reference				SBH 04 D3	SBH 06 D2	SBH 06 D4	SBH 08 D1	SBH 12 D2	SBH 12 D5	SBH 14 D2	
Type				Clay	Clay	Clay	Clay	Clay	Clay	Clay	
Determinand	Method	Test Sample	LOD	Units							
Arsenic	T6	M40	2	mg/kg	4	5	9	9	15	6	18
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	20	18	12	14	18	15	16
Copper	T6	M40	1	mg/kg	13	9	15	21	39	24	41
Lead	T6	M40	1	mg/kg	16	14	15	59	42	20	21
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	23	14	21	23	16	27	23
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	60	33	65	210	87	80	82

SAL Reference: 172250											
Customer Reference: 5041216											
Soil		Analysed as Soil									
Heavy Metals(9)											
SAL Reference				172250 018	172250 020	172250 042	172250 044	172250 046	172250 047	172250 049	
Customer Sample Reference				DME03 D2	DME03 D6	DME 10 D5	DME13 D5	DME15 D2	DME15 D3	DME16 D1	
Type				Clay	Clay	Clay	Clay	Clay	Clay	Clay	Fill
Determinand	Method	Test Sample	LOD	Units							
Arsenic	T6	M40	2	mg/kg	10	6	9	7	16	8	20
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	16	11	14	15	18	11	12
Copper	T6	M40	1	mg/kg	40	14	16	17	36	17	22
Lead	T6	M40	1	mg/kg	36	12	13	13	36	14	50
Mercury	T6	M40	1	mg/kg	5	<1	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	20	22	29	29	17	25	8.4
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	110	59	64	65	90	63	110

Soil	Analysed as Soil
Total Petroleum Hydrocarbons CWG	

SAL Reference: 172250 Customer Reference: 5041216												
Soil		Analysed as Soil										
Total Petroleum Hydrocarbons CWG												
SAL Reference					172250 025	172250 027	172250 028	172250 029	172250 030	172250 031	172250 032	172250 033
Customer Sample Reference					DME04 D4	DME04 D9	DME07 D3	DME07 D6	DME07 D10	DME07 D14	DME07 D15	DME01 D2
Type					Clay	Clay	Fill	Clay	Clay	Clay	Clay	Fill
Determinand	Method	Test Sample	LOD	Units								
Benzene	T209	M105	10	µg/kg	(13,9,19) <40	(19,13) 94	(13,19,9) <40	(13,19,9) <40	(13) <10	(13) <10	(13) <10	(13) 53
EthylBenzene	T209	M105	10	µg/kg	(19) 47	(19) 330	(19) 120	(9,19) <40	<10	<10	<10	<10
M/P Xylene	T209	M105	10	µg/kg	(19) 160	(19) 2800	(19) 300	(19,9) <40	<10	14	<10	<10
Methyl tert-Butyl Ether	T209	M105	10	µg/kg	(9) <40	(9) <40	(9) <40	(9) <40	<10	<10	<10	<10
O Xylene	T209	M105	10	µg/kg	(19,9) <40	(19) 89	(19) 160	(9,19) <40	<10	<10	<10	<10
Toluene	T209	M105	10	µg/kg	(9,13,19) <40	(13,19,9) <40	(13,19) 99	(9,19,13) <40	(13) <10	(13) <10	(13) <10	(13) <10
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	(9,9) <0.400	(9,9) <0.400	(9,9) <0.400	(9,9) <0.400	<0.100	<0.100	<0.100	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.100	mg/kg	(19) 2.47	(19) 1.70	(19) 5.31	(19,9) <0.400	0.111	<0.100	<0.100	<0.100
TPH (C8-C10 aliphatic)	T209	M105	0.100	mg/kg	(19) 22.6	(19) 3.58	(19) 48.8	(19) 10.9	1.23	<0.100	<0.100	0.217
TPH (C10-C12 aliphatic)	T8	M105	1	mg/kg	180	10	47	39	4	<1	<1	(9) <10
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	300	8	92	63	10	<2	<2	(9) <20
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	52	<1	52	27	5	<1	<1	29
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	49	<4	18	10	<4	<4	<4	180
TPH (C6-C7 aromatic)	T209	M105	0.100	mg/kg	(9,19) <0.400	(19,9) <0.400	(19,9) <0.400	(9,19) <0.400	<0.100	<0.100	<0.100	<0.100
TPH (C7-C8 aromatic)	T209	M105	0.100	mg/kg	(19,9) <0.400	(19,9) <0.400	(19,9) <0.400	(19,9) <0.400	<0.100	<0.100	<0.100	<0.100
TPH (C8-C10 aromatic)	T209	M105	0.100	mg/kg	(19) 4.48	(19) 29.6	(19) 2.69	(19,9) <0.400	<0.100	0.121	<0.100	<0.100
TPH (C10-C12 aromatic)	T8	M105	1	mg/kg	24	<1	13	8	<1	<1	<1	(9) <10
TPH (C12-C16 aromatic)	T8	M105	1	mg/kg	40	<1	27	13	<1	<1	<1	(9) <10
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	12	<1	24	11	<1	<1	<1	52
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	18	<1	9	4	<1	<1	3	200

SAL Reference: 172250
Customer Reference: 5041216

Soil Analysed as Soil
Total Petroleum Hydrocarbons CWG

SAL Reference					172250 034	172250 035	172250 037	172250 038	172250 039	172250 040	172250 043	172250 050
Customer Sample Reference					DME01 D3	DME01 D5	DME08 D3	DME08 D4	DME08 D7	DME 10 D2	DME13 D2	DME16 D2
Type					Clay	Clay	Fill	Clay	Clay	Sand	Fill	Clay
Determinand	Method	Test Sample	LOD	Units								
Benzene	T209	M105	10	µg/kg	(19,13) 61	(13) <10	(13) <10	(13) <10	(13) <10	(13) <10	(13) <10	(13) <10
EthylBenzene	T209	M105	10	µg/kg	(9,19) <40	<10	<10	<10	<10	<10	<10	21
M/P Xylene	T209	M105	10	µg/kg	(19,9) <40	<10	<10	<10	<10	33	<10	29
Methyl tert-Butyl Ether	T209	M105	10	µg/kg	(9) <40	<10	<10	<10	<10	<10	<10	<10
O Xylene	T209	M105	10	µg/kg	(9,19) <40	<10	<10	<10	<10	<10	<10	19
Toluene	T209	M105	10	µg/kg	(9,13,19) <40	(13) <10	(13) <10	(13) <10	(13) <10	(13) <10	(13) <10	(13) <10
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	(9,19) <0.400	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.296
TPH (C6-C8 aliphatic)	T209	M105	0.100	mg/kg	(19) 0.704	<0.100	<0.100	<0.100	<0.100	<0.100	0.219	0.217
TPH (C8-C10 aliphatic)	T209	M105	0.100	mg/kg	(19) 6.32	0.304	<0.100	0.239	<0.100	0.357	0.406	0.489
TPH (C10-C12 aliphatic)	T8	M105	1	mg/kg	93	1	3	13	5	21	11	2
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	340	7	98	95	28	78	52	3
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	200	6	360	330	73	85	1000	10
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	370	16	660	600	110	210	16000	170
TPH (C6-C7 aromatic)	T209	M105	0.100	mg/kg	(19,9) <0.400	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
TPH (C7-C8 aromatic)	T209	M105	0.100	mg/kg	(19,9) <0.400	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
TPH (C8-C10 aromatic)	T209	M105	0.100	mg/kg	(9,19) <0.400	<0.100	<0.100	<0.100	<0.100	1.57	0.229	1.14
TPH (C10-C12 aromatic)	T8	M105	1	mg/kg	6	<1	<1	<1	<1	2	(9) <10	<1
TPH (C12-C16 aromatic)	T8	M105	1	mg/kg	54	<1	14	10	3	9	(9) <10	<1
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	82	1	83	82	19	19	70	7
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	150	5	120	170	35	42	1700	46

SAL

SAL Reference: 172250 Customer Reference: 5041216	
Soil	Analysed as Soil
Semi-Volatile Organic Compounds (USEPA 625)	

SAL Reference					172250 025	172250 027	172250 028	172250 029	172250 030	172250 031	172250 032	172250 033
Customer Sample Reference					DME04 D4	DME04 D9	DME07 D3	DME07 D6	DME07 D10	DME07 D14	DME07 D15	DME01 D2
Type					Clay	Clay	Fill	Clay	Clay	Clay	Clay	Fill
Determinand	Method	Test Sample	LOD	Units								
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
Azobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.3
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.9
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.7
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.8
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbazole	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.4
Chrysene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3.1
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3
Dibenzofuran	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.4
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5
Isophorone	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	4.2
Phenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.9

Soil	Analysed as Soil
Semi-Volatile Organic Compounds (USEPA 625)	

Produced by Scientific Analysis Laboratories, Hadfield House, Hadfield Street, Cornbrook, Manchester, M16 9FE

Soil	Analysed as Soil
Volatile Organic Compounds (USEPA 624) (MCERTS)	

Produced by Scientific Analysis Laboratories, Hadfield House, Hadfield Street, Cornbrook, Manchester, M16 9FE

SAL Reference: 172250												
Customer Reference: 5041216												
Soil		Analysed as Soil										
Volatile Organic Compounds (USEPA 624) (MCERTS)												
SAL Reference					172250 016	172250 017	172250 018	172250 019	172250 020	172250 021	172250 022	172250 024
Customer Sample Reference					SBH 14 D3	SBH 14 D6	DME03 D2	DME03 D4	DME03 D6	DME03 D8	DME03 D10	DME04 D2
Type					Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay
Determinand	Method	Test Sample	LOD	Units								
1,1,1,2-Tetrachloroethane	T209	M105	50	µg/kg	<50	(9,19) <200	(19,9) <200	(19,9) <200	<50	<50	<50	(19,9) <200
1,1,1-Trichloroethane	T209	M105	50	µg/kg	<50	(9,19) <200	(9,19) <200	(9,19) <200	<50	<50	<50	(19,9) <200
1,1,2,2-Tetrachloroethane	T209	M105	50	µg/kg	<50	(9,19) <50	(9,19) <200	(19,9) <50	<50	<50	73	(19,9) <200
1,1,2-Trichloroethane	T209	M105	50	µg/kg	<50	(9,19) <50	(9,19) <200	(9,19) <50	<50	<50	150	(19,9) <200
1,1-Dichloroethane	T209	M105	50	µg/kg	<50	(19,9) <200	(9,19) <200	(9,19) <200	<50	<50	<50	(9,19) <200
1,1-Dichloroethylene	T209	M105	50	µg/kg	<50	(19,9) <200	(9,19) <200	(19,9) <200	<50	<50	<50	(9,19) <200
1,1-Dichloropropene	T209	M105	50	µg/kg	<50	(19,9) <200	(19,9) <200	(9,19) <200	<50	<50	<50	(9,19) <200
1,2,3-Trichloropropane	T209	M105	50	µg/kg	<50	(19,9) <50	(19,9) <200	(9,19) <50	<50	<50	170	(9,19) <200
1,2,4-Trimethylbenzene	T209	M105	50	µg/kg	<50	(19,9) <200	(9,19) <200	(19,9) <50	<50	130	<50	(9,19) <200
1,2-dibromoethane	T209	M105	50	µg/kg	<50	(19,9) <200	(19,9) <200	(19,9) <200	<50	<50	<50	(9,19) <200
1,2-Dichlorobenzene	T209	M105	50	µg/kg	<50	(9,19) <200	(19,9) <200	(19,9) <200	<50	<50	<50	(9,19) <200
1,2-Dichloroethane	T209	M105	50	µg/kg	<50	(19,9) <200	(19,9) <200	(9,19) <50	(19) 50000	(19) 2700	(113,19) 190000	(9,19) <200
1,2-Dichloropropane	T209	M105	50	µg/kg	<50	(9,19) <50	(9,19) <200	(9,19) <200	<50	<50	<50	(19,9) <200
1,3,5-Trimethylbenzene	T209	M105	50	µg/kg	<50	(9,19) <200	(9,19) <200	(19,9) <200	<50	<50	<50	(19) 1100
1,3-Dichlorobenzene	T209	M105	50	µg/kg	<50	(19,9) <200	(9,19) <200	(19,9) <200	<50	<50	<50	(9,19) <200
1,3-Dichloropropane	T209	M105	50	µg/kg	<50	(9,19) <200	(19,9) <200	(19,9) <200	<50	<50	<50	(9,19) <200
1,4-Dichlorobenzene	T209	M105	50	µg/kg	<50	(9,19) <200	(19,9) <200	(9,19) <200	<50	<50	<50	(19,9) <200
2,2-Dichloropropane	T209	M105	50	µg/kg	<50	(19,9) <200	(19,9) <200	(19,9) <200	<50	<50	<50	(19,9) <200
2-Chlorotoluene	T209	M105	50	µg/kg	<50	(19,9) <200	(9,19) <200	(9,19) <200	<50	<50	<50	(19,9) <200
4-Chlorotoluene	T209	M105	50	µg/kg	<50	(9,19) <50	(9,19) <200	(19,9) <200	<50	<50	<50	(9,19) <200
Benzene	T209	M105	10	µg/kg	(13) <10	(13,19,9) <40	(9,19,13) <40	(13,19,9) <40	(13) <10	(13) <10	(13) <10	(19,13) 98
Bromobenzene	T209	M105	50	µg/kg	<50	(9,19) <200	(9,19) <200	(9,19) <200	<50	<50	<50	(19,9) <200
Bromochloromethane	T209	M105	50	µg/kg	<50	(9,19) <200	(19,9) <200	(19,9) <200	<50	<50	<50	(9,19) <200
Bromodichloromethane	T209	M105	50	µg/kg	<50	(19,9) <50	(19,9) <200	(19,9) <200	<50	<50	<50	(9,19) <200
Bromoform	T209	M105	50	µg/kg	<50	(9,19) <200	(9,19) <200	(9,19) <200	<50	<50	<50	(9,19) <200
Bromomethane	T209	M105	50	µg/kg	<50	(19,9) <200	(19,9) <200	(9,19) <200	<50	<50	<50	(9,19) <200
Carbon tetrachloride	T209	M105	50	µg/kg	<50	(9,19) <200	(9,19) <200	(9,19) <200	<50	<50	<50	(19,9) <200
Chlorobenzene	T209	M105	50	µg/kg	<50	(19,9) <200	(19,9) <200	(19,9) <200	<50	<50	<50	(19,9) <200
Chlorodibromomethane	T209	M105	50	µg/kg	<50	(19,9) <200	(9,19) <200	(9,19) <200	<50	<50	<50	(9,19) <200
Chloroethane	T209	M105	50	µg/kg	<50	(19,9) <200	(9,19) <200	(9,19) <200	<50	<50	<50	(9,19) <200
Chloroform	T209	M105	50	µg/kg	<50	(19,9) <200	(19,9) <200	(9,19) <200	<50	<50	<50	(19,9) <200
Chloromethane	T209	M105	50	µg/kg	<50	(19,9) <200	(9,19) <200	(9,19) <200	<50	<50	<50	(9,19) <200
Cis-1,2-Dichloroethylene	T209	M105	50	µg/kg	<50	(9,19) <200	(19,9) <200	(19,9) <200	<50	<50	<50	(9,19) <200
Cis-1,3-Dichloropropene	T209	M105	50	µg/kg	<50	(19,9) <200	(9,19) <200	(9,19) <200	<50	<50	<50	(9,19) <200
Dibromomethane	T209	M105	50	µg/kg	<50	(9,19) <200	(9,19) <200	(19,9) <200	<50	<50	<50	(9,19) <200
Dichlorodifluoromethane	T209	M105	50	µg/kg	<50	(19,9) <200	(19,9) <200	(19,9) <200	<50	<50	<50	(19,9) <200
Dichloromethane	T209	M105	50	µg/kg	<50	(19,9) <50	(19,9) <200	(19) 590	(19) 44000	720	(113,19) 130000	(19,9) <200
EthylBenzene	T209	M105	10	µg/kg	<10	(9,19) <40	(9,19) <40	(19,9) <40	<10	<10	<10	(19) 130
Isopropyl benzene	T209	M105	50	µg/kg	<50	(19,9) 580	(19) 250	(19,9) 1000	<50	<50	64	(19) 630
M/P Xylene	T209	M105	10	µg/kg	<10	(19,9) <40	(19) 45	(19,9) <40	<10	28	<10	(19) 61
n-Propylbenzene	T209	M105	50	µg/kg	<50	(19) 1400	(19) 440	(19) 2300	<50	<50	120	(19) 2600
O Xylene	T209	M105	10	µg/kg	<10	(19,9) <40	(19,9) <40	(9,19) <40	<10	<10	<10	(19,9) <40
p-Isopropyltoluene	T209	M105	50	µg/kg	<50	(19) <200	(19,9) <200	(19) <50	<50	<50	<50	(9,19) <200
S-Butylbenzene	T209	M105	50	µg/kg	<50	(19) 3100	(19) 1000	(19) 2600	97	<50	180	(19) 1100
Styrene	T209	M105	50	µg/kg	<50	(19,9) <200	(19,9) <200	(9,19) <200	<50	<50	<50	(19,9) <200
T-Butylbenzene	T209	M105	50	µg/kg	<50	(19,9) <50	(19,9) <200	(19,9) <200	<50	<50	<50	(9,19) <200
Tetrachloroethylene	T209	M105	50	µg/kg	<50	(9,19) <200	(9,19) <200	(9,19) <200	<50	<50	<50	(9,19) <200
Toluene	T209	M105	10	µg/kg	(13) <10	(9,13,19) <40	(9,19,13) <40	(19,13,9) <40	(13) <10	(13) <10	(13) <10	(19,13,9) <40
Trans-1,2-Dichloroethene	T209	M105	50	µg/kg	<50	(19,9) <200	(9,19) <200	(9,19) <200	<50	<50	<50	(19,9) <200
Trans-1,3-Dichloropropene	T209	M105	50	µg/kg	<50	(9,19) <200	(19,9) <200	(19,9) <200	<50	<50	<50	(9,19) <200
Trichloroethylene	T209	M105	50	µg/kg	<50	(19,9) <200	(19,9) <200	(19,9) <200	<50	<50	<50	(9,19) <200
Trichlorofluoromethane	T209	M105	50	µg/kg	<50	(9,19) <200	(19,9) <200	(9,19) <200	<50	<50	<50	(19,9) <200
Vinyl chloride	T209	M105	50	µg/kg	<50	(9,19) <200	(19,9) <200	(19,9) <200	<50	<50	<50	(9,19) <200

Soil	Analysed as Soil
Volatile Organic Compounds (USEPA 624) (MCERTS)	

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Soil	Analysed as Soil
Volatile Organic Compounds (USEPA 624) (MCERTS)	

Produced by Scientific Analysis Laboratories, Hadfield House, Hadfield Street, Cornbrook, Manchester, M16 9FE Page 20 of 20

Monitor Phase 43 . July 2009 Ground Investigation
DiMe RTCs

Sample	1,2-Dichloroethane	Tetrachloroethene	Trichloroethene	Carbon Tetrachloride	Cis 1,2 Dichloroethene	Trans 1,2 Dichloroethene	Dichloromethane	Vinyl Chloride	Benzene	m&p-xylene	o-xylene	TPH (Aromatic C5-C7)
	µg/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	µg/kg	ug.kg	µg/kg	µg/kg	µg/kg	mg/kg
SBH 04 D4	<50	<50	<50	<50	<50	<50	730	<50	<10	<10	<10	<0.100
SBH 04 D5	<50	<50	<50	<50	<50	<50	<50	<50	<10	<10	<10	<0.100
SBH 05 D3	<50	<50	<50	<50	<50	<50	<50	<50	<10	<10	<10	<0.100
SBH 05 D4	<50	<50	<50	<50	<50	<50	<50	<50	<10	<10	<10	<0.100
SBH 05 D5	<200	<200	<200	<200	<200	<200	<200	<200	<40	<40	<40	<0.400
SBH 06 D6	<200	<200	<200	<200	<200	<200	<200	<200	<40	<40	<40	<0.400
SBH 13 D3	<50	<50	<50	<50	<50	<50	<50	<50	<10	<10	<10	<0.100
SBH 13 D5	<200	<200	<200	<200	<200	<200	<200	<200	<40	1600	120	7.95
SBH 14 D3	<50	<50	<50	<50	<50	<50	<50	<50	<10	<10	<10	<0.100
SBH 14 D6	<200	<200	<200	<200	<200	<200	<50	<200	<40	<40	<40	0.908
DME03 D2	<200	<200	<200	<200	<200	<200	<200	<200	<40	45	<40	<0.400
DME03 D4	<50	<200	<200	<200	<200	<200	590	<200	<40	<40	<40	1.65
DME03 D6	50000	<50	<50	<50	<50	<50	44000	<50	<10	<10	<10	<0.100
DME03 D8	2700	<50	<50	<50	<50	<50	720	<50	<10	28	<10	<0.100
DME03 D10	190000	<50	<50	<50	<50	<50	130000	<50	<10	<10	<10	0.197
DME04 D2	<200	<200	<200	<200	<200	<200	<200	<200	98	61	<40	1.8
DME04 D4	280	<200	<200	<200	<200	<200	<200	<200	<40	160	<40	<0.400
DME04 D9	<200	<200	<200	<200	<200	<200	<200	<200	94	2800	89	<0.400
DME07 D3	<200	<200	<200	<200	<200	<200	<50	<200	<40	300	160	<0.400
DME07 D6	520	<200	<200	<200	<200	<200	<200	<200	<40	<40	<40	<0.400
DME07 D10	<50	<50	<50	<50	<50	<50	<50	<50	<10	<10	<10	<0.100
DME07 D14	430	<50	<50	<50	<50	<50	690	<50	<10	14	<10	<0.100
DME07 D15	<50	<50	<50	<50	<50	<50	<50	<50	<10	<10	<10	<0.100
DME01 D2	<50	<50	<50	<50	<50	<50	<50	<50	53	<10	<10	<0.100
DME01 D3	<200	<200	<200	<200	<200	<200	<200	<200	61	<40	<40	<0.400
DME01 D5	<50	<50	<50	<50	<50	<50	130	<50	<10	<10	<10	<0.100
DME08 D3	<50	<50	<50	<50	<50	<50	<50	<50	<10	<10	<10	<0.100
DME08 D4	<50	<50	<50	<50	<50	<50	<50	<50	<10	<10	<10	<0.100
DME08 D7	<50	<50	<50	<50	<50	<50	<50	<50	<10	<10	<10	<0.100
DME 10 D2	260	<50	<50	<50	<50	<50	520	<50	<10	33	<10	<0.100
DME13 D2	87	<50	<50	<50	<50	<50	85	<50	<10	<10	<10	<0.100
DME16 D2	<50	<50	<50	<50	<50	<50	<50	<50	<10	29	19	0.296
MAXIMUM RECORDED CONCENTRATION	190000	ND	ND	ND	ND	ND	130000	ND	98	2800	160	7.95
DIME RTC	9100		220000		190000	330000	3100000	780	47000			
RECREATIONAL RBSL (>1m)	6000	1780000	269000	301000	881000	881000	6220000	8210	48000	478000		432

ND=Not Detected

Note: Those highlighted in brown lie outside of Monitor Phase 43 but have been included for reference.

Appendix E. Atkins Technical Note 242

Technical Note

Subject: Coed Darcy- DiMe Area Draw Down Test Results

Reference: 5041216-RAP-TN-000242

Revision: Draft

Author: Matthew Brown

Checker: Michelle Lee

Issued to: Jon Hearing

Reviewer: Michelle Lee

Date: 17th November 2009

Authoriser: Mike Poland

Introduction

The following technical note discusses the results of draw down tests undertaken within the DiMe Area in the exploratory holes which have been determined during the ongoing monitoring programme to contain free product.

Draw down tests were carried out in eight exploratory holes within the DiMe Area.. The tests were undertaken in order to determine whether the product present within the exploratory holes represents part of a pool of product underlying the DiMe Area or localised 'pockets' of free product trapped within the existing standpipes.

Methodology

Draw down tests were carried out undertaken at the following locations DSB021S, DSB022S, DSB027, DSB025, DSB024S, MSMW0224S and MSMW069S2, as shown on Drawing 5041216/REM/268. The tests were conducted using a peristaltic pump and tubing. New tubing was used at each location to avoid cross contamination locations and to enable easy logging of the recovered product. The exploratory hole was purged until the hole either a) ran dry or b) was purged until the groundwater within the hole ran clear for a period of at least one minute.

After the pumping ceased, the depths to groundwater and product (if present) were recorded. Recovery levels were then recorded at frequent intervals over a minimum period of at least 30 minutes.

Results

On completion of the tests, product was recorded within five of the eight exploratory holes (DSB021S, DSB022S, DSB025, DSB025S and DSB027) as indicated in Table 1. Recovery graphs for these exploratory holes are appended to this Technical Note.

The results of the draw down tests show product returned to five of the exploratory holes (DSB021s, DSB022s, DSB025 15mm and 50mm DSB027) within the post test monitoring period. Although product returned within these five installations, there was a noticeable decrease within the quantity of product contained within four of the five installations. Table 1 records the approximate thicknesses of product pre and post test.

Table 1 – Thicknesses of product pre and post draw down testing

Exploratory Hole Ref.	Thickness of product pre test (m)	Thickness of product post test (m)	Variation in product thickness (m)	Installation Response Zone (m)
DSB021	0.30	0.02	-0.28	1.0 – 3.1
DSB022	0.06	0.01	-0.05	4.5 – 5.5
DSB025 (15mm)	1.23	1.32	+0.09	1.0 – 3.4
DSB025 (50mm)	4.58	0.11	-4.47	5.7 – 6.7
DSB027	1.09	0.94	-0.15	5.6 – 6.8

The eight boreholes where the draw down tests were undertaken were also monitored 24 hours after the completion of the test to determine whether a more gradual return of product had occurred. The results of this monitoring and the comparison between the thickness of product pre test and 24 hours later is shown within the Table 2 below.

Table 2 – Thickness of product 24 hours after the completion draw down testing

Exploratory Hole Ref	Thickness of product pre test (m)	Thickness of product 24 hours after (m)	Variation in product thickness (m)
DSB021	0.30	0.16	-0.14
DSB022	0.06	0.45	+0.39
DSB024	0.16	0.14	-0.02
DSB025 (15mm)	1.23	2.52	+1.29
DSB025 (50mm)	4.58	1.96	-2.62
DSB027	1.09	1.98	+0.89
MSMW069s	0.40	0.01	-0.39
MSMW224s	0.14	N/a	-0.14

Conclusions

Although product returned within seven of the eight holes there was a decrease in the quantity of the product present within four of the seven holes.

On the basis of the results obtained from DSB022, DSB025 (15mm) and DSB027 where the amount of product present increased, it would appear that there is a reservoir of product present underlying the location where these exploratory holes are situated. Where the quantity of product present has decreased this may suggest a more finite hydrocarbon source is present. The response zones within the exploratory holes were the quantity of product increased vary between shallow (1.0 – 3.4m) and deep (4.5 – 5.5m and 5.6 – 6.6m). Therefore the product impacted soil within this area could extend to depths of 6.6m.

Given the one off nature of the testing undertaken it is not possible to accurately determine the quantity of product remaining beneath the DiMe Area and it is recommended that further investigation is undertaken within this area to determine the quantity of product present here. This investigation may take the form of further pumping on a regular basis in order to determine if there is any noticeable decrease in the quantity of product or a slow down in the recharge rate of the installations. Alternatively further intensive trial pitting within the area where product has been identified could help determine the extent and thickness of the affected area and the amount of product present.

It is considered that the contamination present at MSMW224s is not solely from hydrocarbons but also from chemicals as well. Further investigation is also recommended in this area.

Appendix – Draw Down Test Result Graphs

Figure 1 – DSB021s Draw Down Test Results

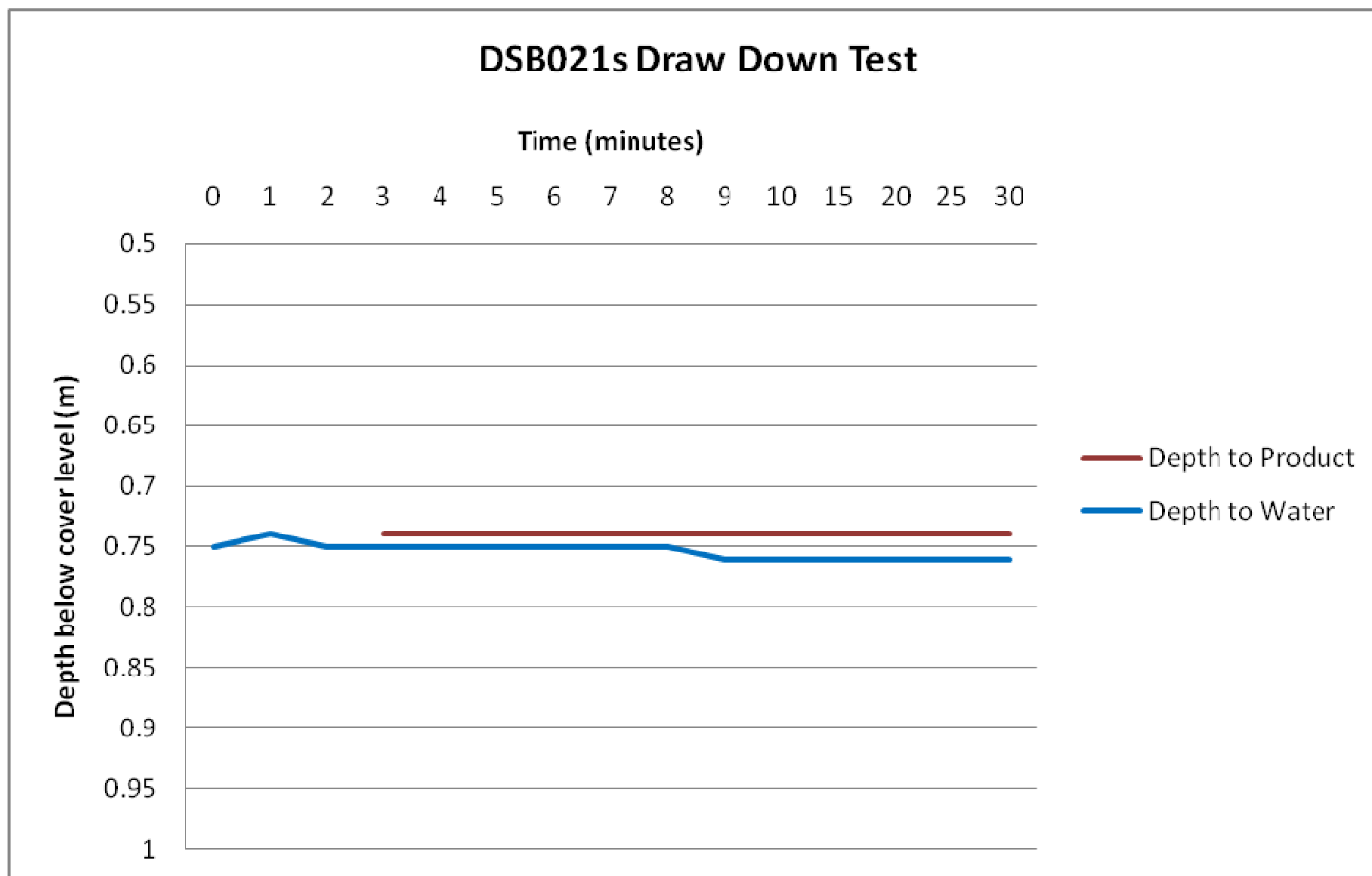


Figure 2 – DSB022s Draw Down Test Results

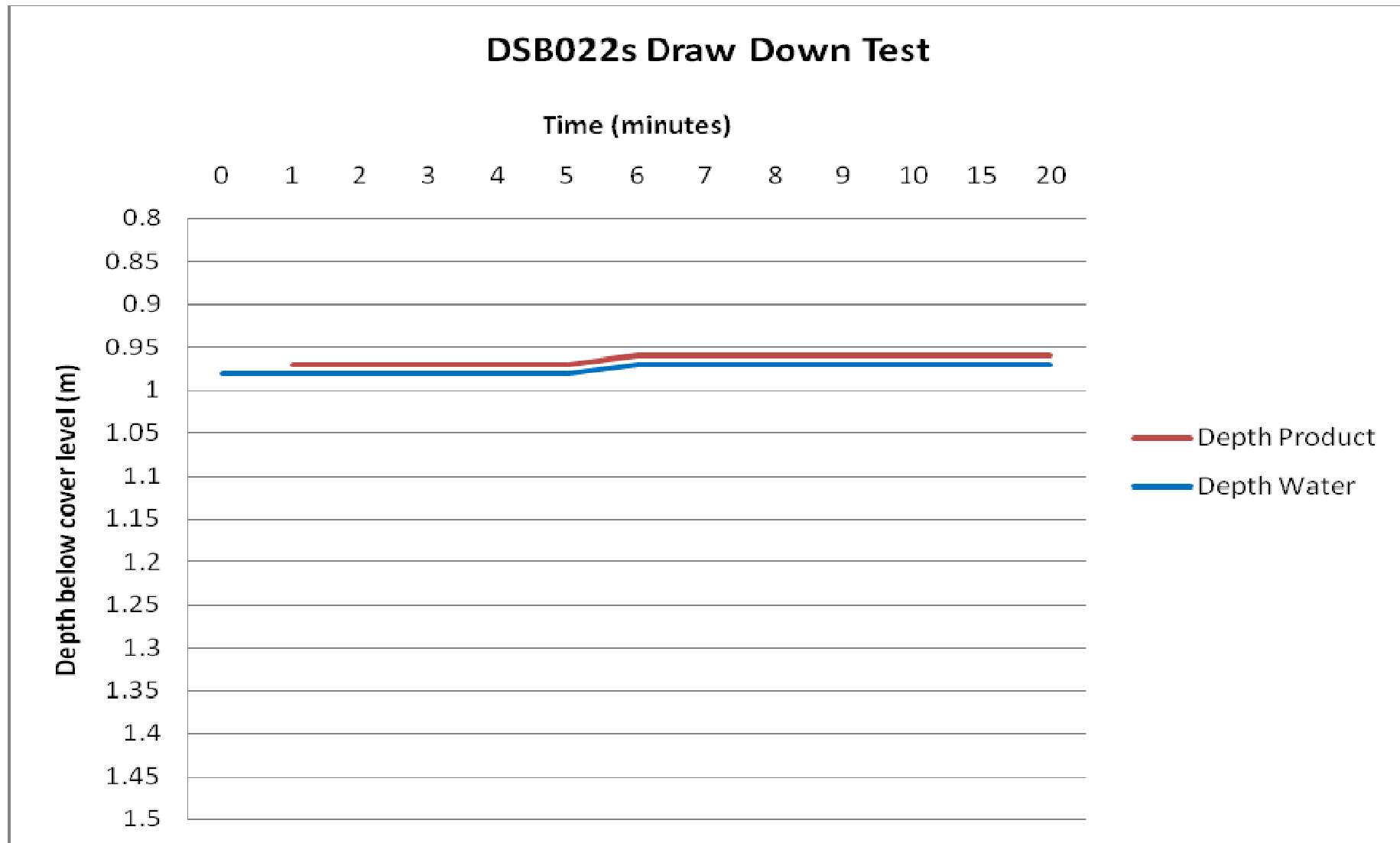


Figure 3 – DSB024s Draw Down Test Results

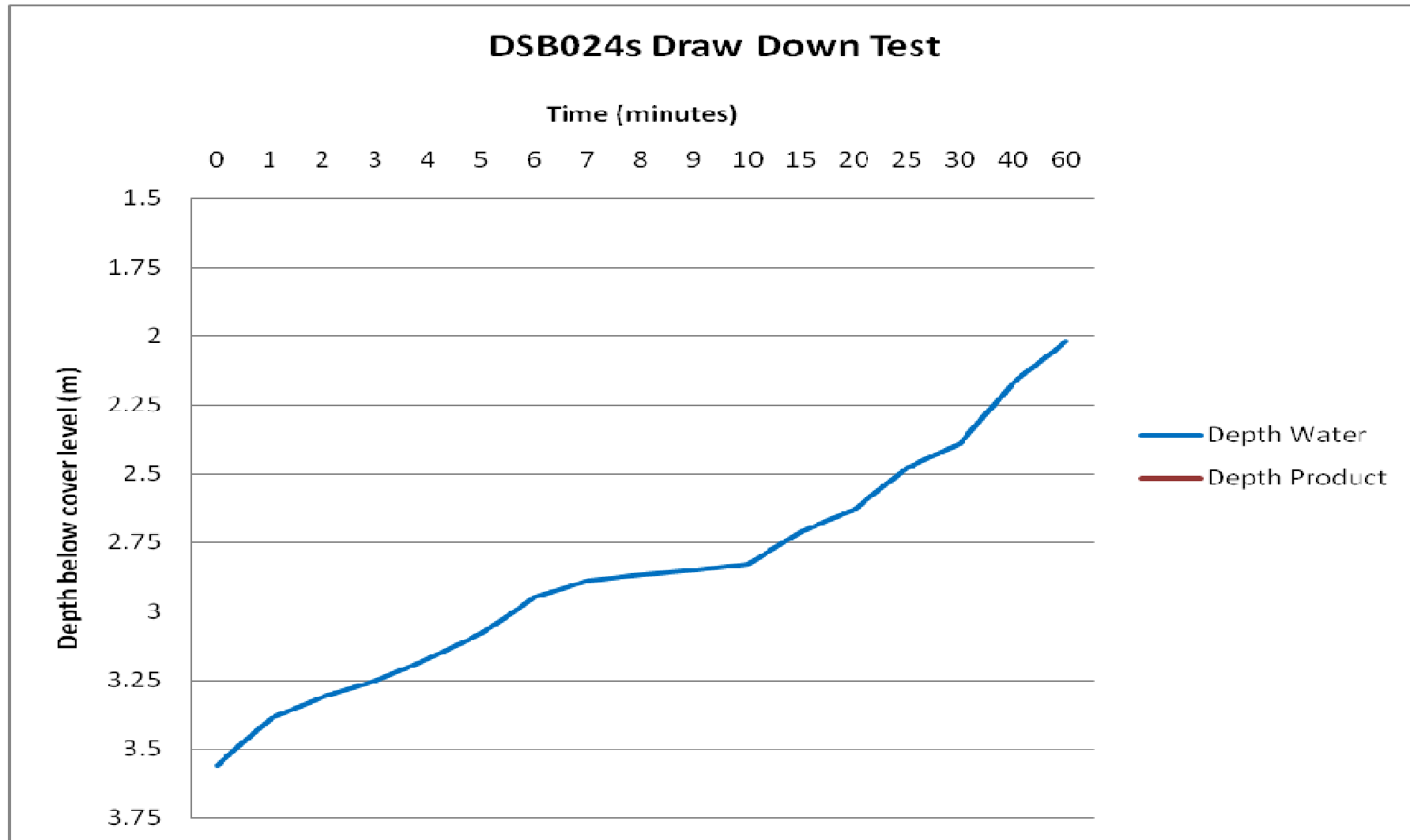


Figure 4 - DSB025 Draw Down Test Results

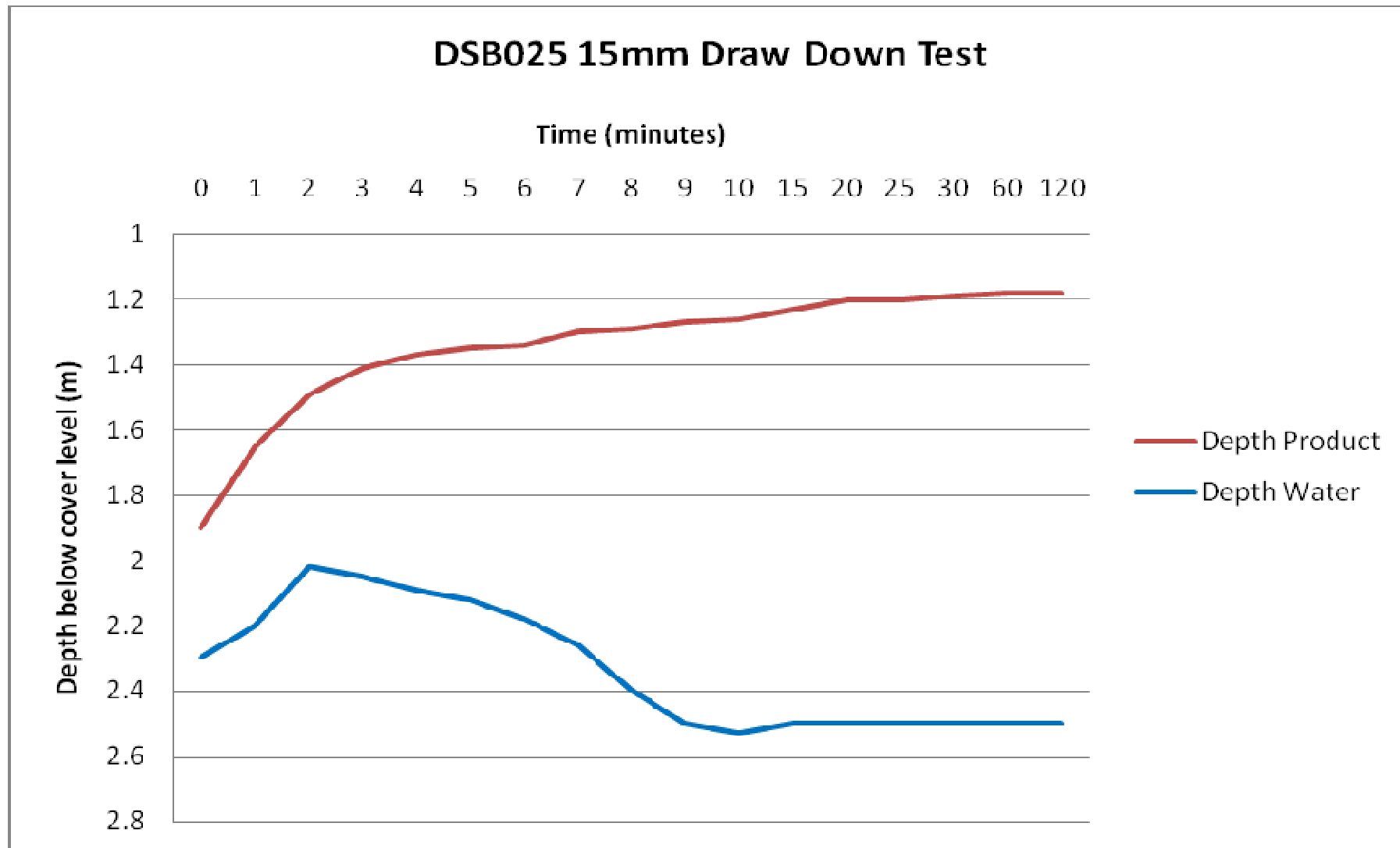


Figure 5 – DSB025 50mm Draw Down Test Results

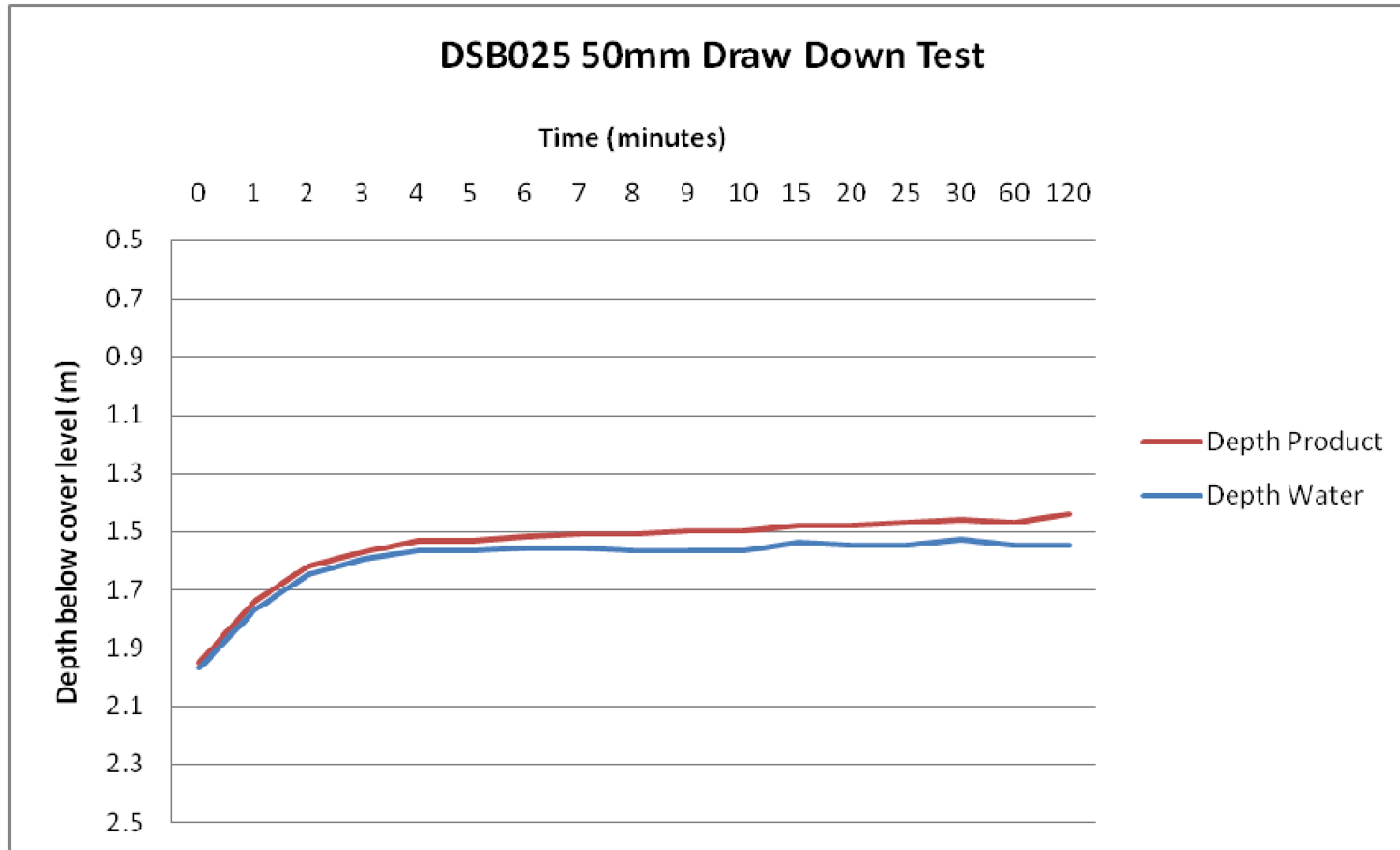


Figure 6 – DSB027 Draw Down Test Results

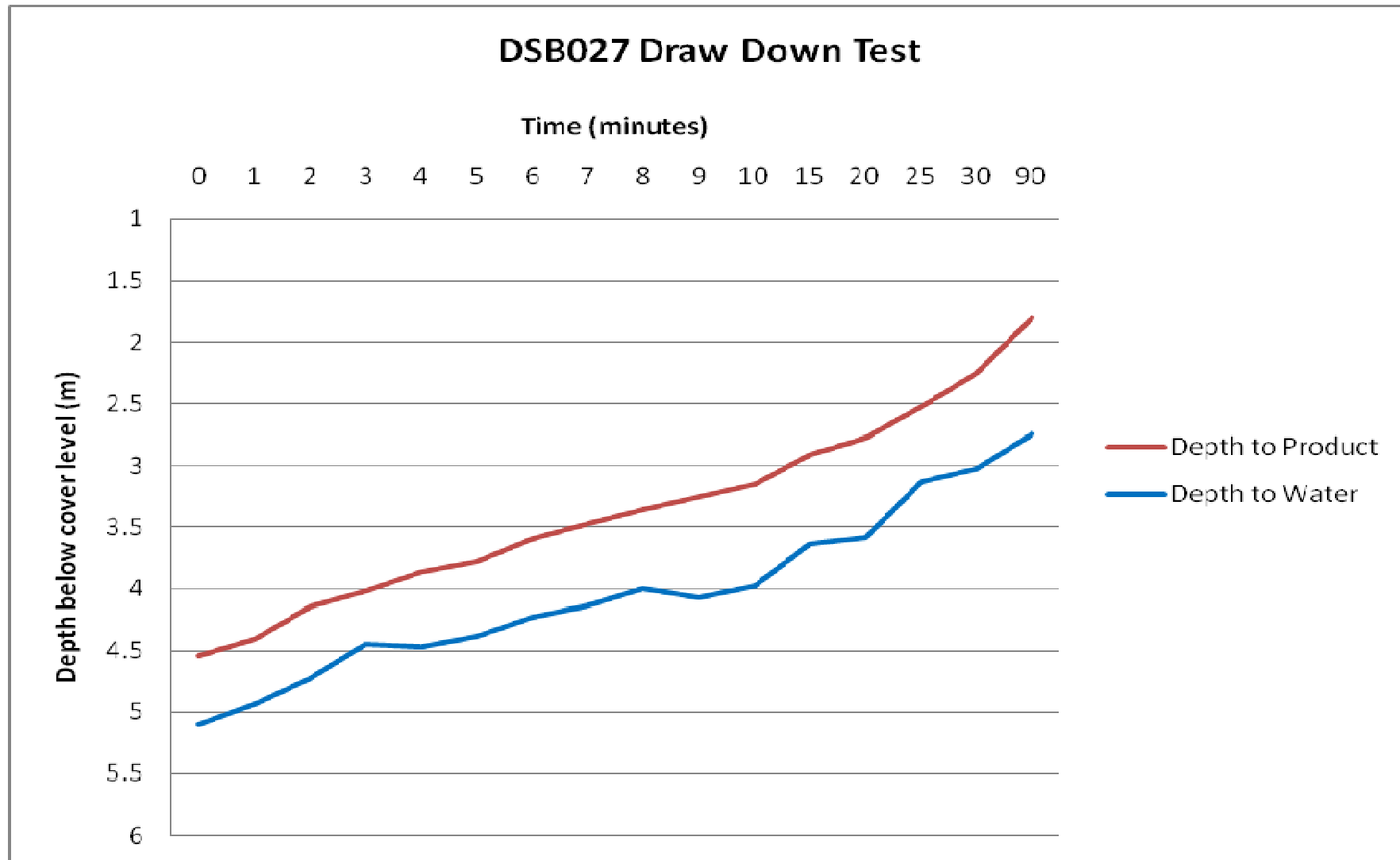


Figure 7 – MSMW069s Draw Down Test Results

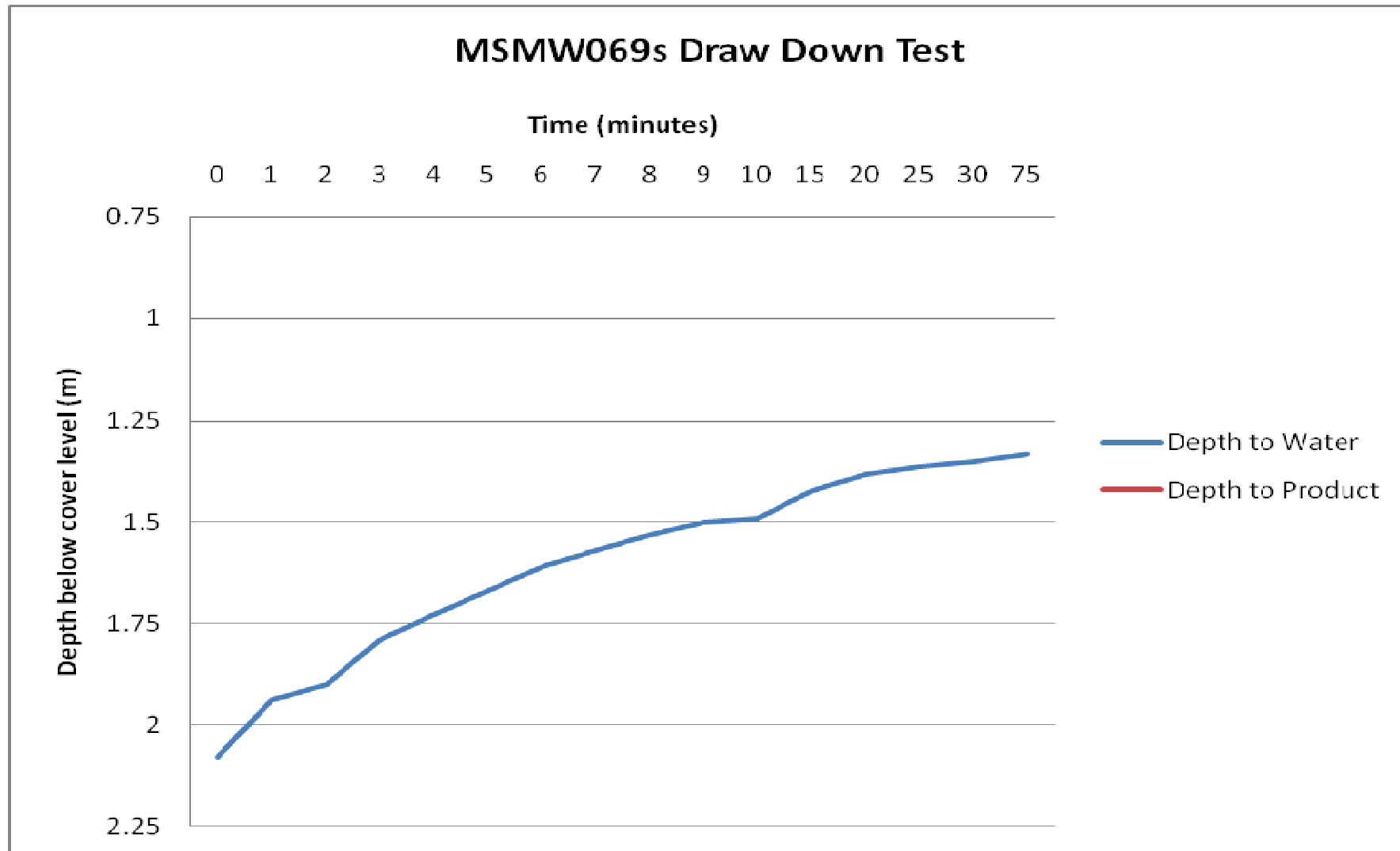
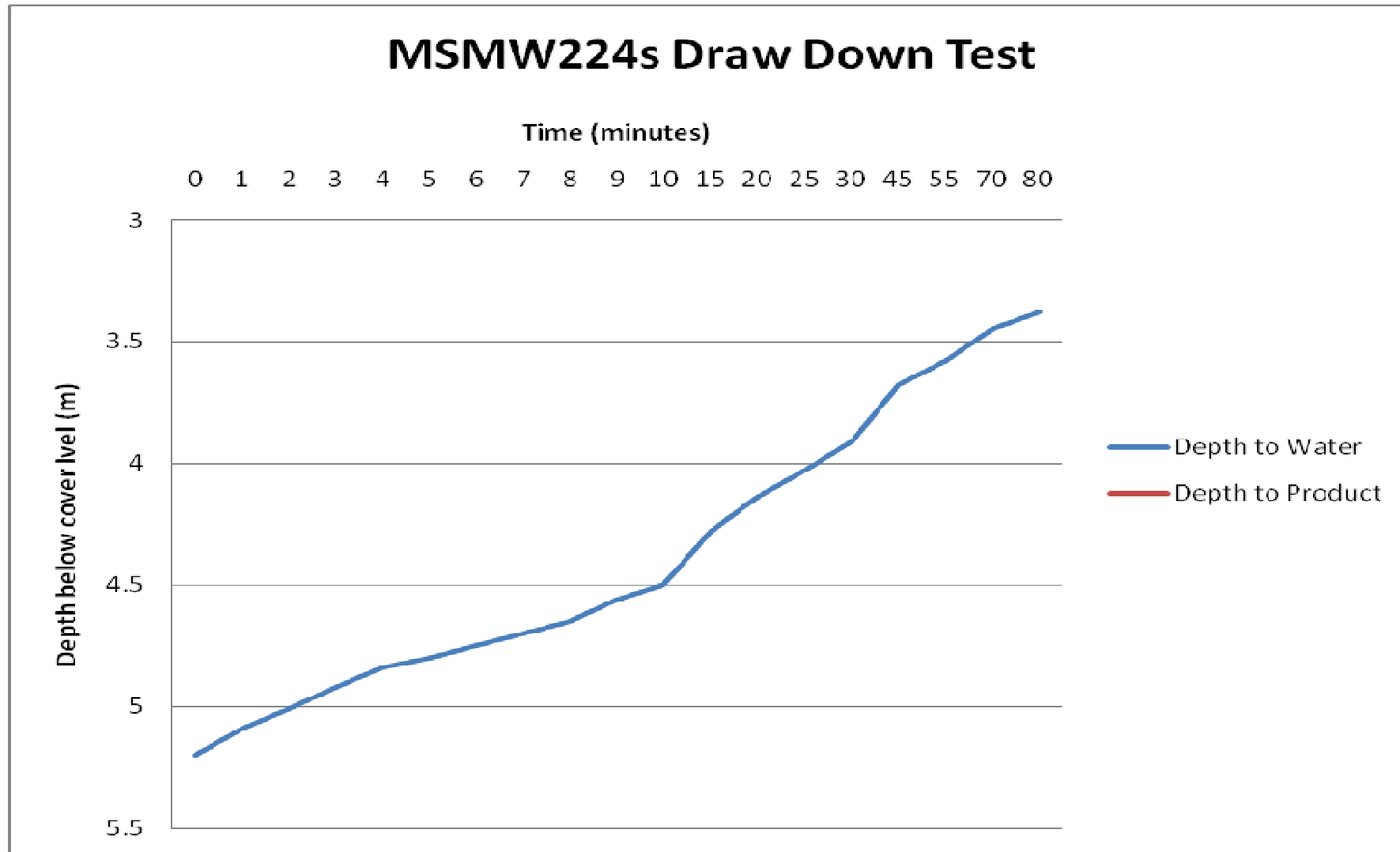


Figure 8 – MSMW224s Draw Down Test Results



Appendix F. Selected Photographs (Hardstanding Removal)



Photograph 1: DiMe Plant on acquisition of the refinery by St Modwen in 2008



Photograph 2: Preliminary Ground investigations (July 2009)



Photograph 3: DiME hardstanding removal July 2010



Photograph 4: Central substation and New bath house (2008)



Photograph 5: Central substation demolition (December 2009)



Photograph 6: New bath house demolition (March 2010)



Photograph 7: New bath house and central substation foundation removal (August 2010)



Photograph 8: Former central substation and bath house (June 2011)



Photograph 9: Shallow turnover during hardstanding and drainage removal



Photograph 10: Localised areas of free product within shallow Made Ground



Photograph 11: Installation of new drainage ditch during hardstanding removal



Photograph 12: Localised free product identified during the works



Photograph 13: Shallow (1m) turnover and structures removal



Photograph 14: Removal of identified pipework/relict infrastructure etc



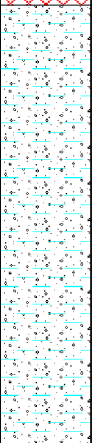
Photograph 15: Removal of existing roadway to the south of the former DIME Plant



Photograph 16: Removal of existing below ground structures during the works

Appendix G. Exploratory Hole Logs (Atkins, 2011)

Site: Coed Darcy Urban Village				Start Date: 25/01/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd				End Date: 25/01/2011		Easting: 271504.00	
Project No: DIME VP						Northing: 195965.00	
Trial Pit Length:				Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: CAT 210 Excavator	
						Shoring/Support: None	
Samples & Tests			Strata Details				
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.10	ES					MADE GROUND: Brown clayey gravelly sand. Coarse gravel of subrounded to subangular sandstone, brick and concrete. Occasional whole brick and concrete cobbles. Rare re-bar (0,0).	
0.40	ES		1.00				
0.80	ES						
1.00	EW		0.20		1.00		
1.10	ES				1.20		
						Black stained with Hydrocarbon odour (4,3) sandy gravelly CLAY. Coarse gravel of quartz and sandstone. End of Trial Pit at 1.20 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: Rapid ingress of water from north face at 1.0m			Stability: Trial Pit was stable.			General Remarks: Pit terminated at 1.2m due to water ingress.	

Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP				Start Date: 25/01/2011 End Date: 25/01/2011		Site Level (mAOD): - Easting: 271475.00 Northing: 195989.00	
Trial Pit Length:				Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: CAT 210 Excavator Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.10	ES		0.30		0.30	MADE GROUND: Brown clayey gravelly sand. Coarse gravel of subrounded to subangular sandstone, brick and concrete. Occasional whole brick and concrete cobbles. Rare re-bar (1,0).	
0.90	ES		2.90			Orange brown gravelly sandy CLAY. Coarse gravel of sandstone and quartz. Occasional cobbles of sandstone and quartz. With pockets of stiff grey clay (1,0).	
3.20	ES				3.20	End of Trial Pit at 3.20 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered				Stability: Trial Pit was stable.		General Remarks: Pit terminated at 3.2m in stiff clay.	

Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP				Start Date: 25/01/2011 End Date: 25/01/2011		Site Level (mAOD): - Easting: 271456.00 Northing: 196012.00	
Trial Pit Length:				Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: CAT 210 Excavator Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.10	ES					MADE GROUND: Brown clayey gravelly sand. Coarse gravel of subrounded to subangular sandstone, brick and concrete. Occasional whole brick and concrete cobbles. Rare re-bar (1,0).	
0.40	ES		1.00				
0.80	ES						
1.00	EW		0.20				
1.20	ES						
					1.00	MADE GROUND: Dark grey/black (2,1) clayey sandy gravel. Medium to coarse gravel of quartz.	
					1.20		
1.60	ES		0.80				
					2.00		
2.20	ES		0.70			Orange brown gravelly clayey SAND. Coarse gravel of sandstone and quartz (0,0).	
					2.00		
2.50	ES					Very stiff gravelly CLAY. Coarse gravel of sandstone and quartz (0,0).	
					2.70		
End of Trial Pit at 2.70 m							
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: Ingress of water from all faces at 1.0m				Stability: Trial Pit was stable.		General Remarks: Pit terminated at 2.7m due to water ingress.	

Site: Coed Darcy Urban Village			Start Date: 25/01/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 25/01/2011		Easting: 271422.00	
Project No: DIME VP					Northing: 196043.00	
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: CAT 210 Excavator	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.10	ES		0.30		0.30	MADE GROUND: Brown clayey gravelly sand. Coarse gravel of subrounded to subangular sandstone, brick and concrete. Occasional whole brick and concrete cobbles. Rare re-bar (1,0).
0.40	ES		0.60			
0.90	ES EW		0.10		0.90	MADE GROUND: Stained grey (2,2) gravelly clayey sand. Coarse gravel of brick, sandstone and quartz.
					1.00	
Stained black (4,2) slightly sandy GRAVEL. Coarse gravel of angular sandstone. End of Trial Pit at 1.00 m						
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Rapid ingress of oily water at 0.9m from south face			Stability: Trial Pit was stable.		General Remarks: Pit terminated at 1.0m due to water ingress.	

Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP			Start Date: 25/01/2011 End Date: 25/01/2011		Site Level (mAOD): - Easting: 271389.00 Northing: 196070.00	
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: CAT 210 Excavator Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.10	ES		0.40		0.40	MADE GROUND: Brown clayey gravelly sand. Coarse gravel of subrounded to subangular sandstone, brick and concrete. Occasional whole brick and concrete cobbles. Rare re-bar (1,0).
0.50	ES		0.80			
1.20	ES		0.20			1.20
1.40	EW ES		0.10	1.40		
					1.50	MADE GROUND: Stained black (4,2) sandy gravel of sandstone and ballast.
Orange brown sandy CLAY (0,0). End of Trial Pit at 1.50 m						
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Ingress of oily water at 1.2m			Stability: Trial Pit was stable.		General Remarks: Pit terminated at 1.5m due to water ingress.	

Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP			Start Date: 25/01/2011 End Date: 25/01/2011		Site Level (mAOD): - Easting: 271364.00 Northing: 196097.00	
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: CAT 210 Excavator Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.10	ES		0.20		0.20	MADE GROUND: Brown clayey gravelly sand. Coarse gravel of subrounded to subangular sandstone, brick and concrete. Occasional whole brick and concrete cobbles. Rare re-bar (1,0).
0.40	ES		0.80			
0.70	ES					
1.20	ES		0.40		1.00	MADE GROUND: Stained grey (2,1) gravelly sand with coarse gravel of brick and sandstone.
1.40	EW		0.20			
1.50	ES					
			0.80		1.60	Orange brown gravelly clayey SAND. Coarse gravel of sandstone and quartz with occasional quartz cobbles (0,0).
2.20	ES					
					2.40	Orange brown stained grey (4,2), gravelly clayey SAND. Coarse gravel of sandstone and quartz with occasional quartz cobbles (0,0).
						Brown clayey SAND. Gravel of rounded quartz and sandstone (0,0).
						End of Trial Pit at 2.40 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Ingress of water with product at 1.4m			Stability: Trial Pit was stable.		General Remarks: Pit terminated at 2.4m on bedrock.	

Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP				Start Date: 26/01/2011 End Date: 26/01/2011		Site Level (mAOD): - Easting: 271405.00 Northing: 196101.00	
Trial Pit Length:				Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: CAT 210 Excavator Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.10	ES					MADE GROUND: Brown clayey gravelly sand. Coarse gravel of subrounded to subangular sandstone, brick and concrete. Occasional whole brick and concrete cobbles. Rare re-bar (1,0).	
0.40	ES		0.90				
0.90	ES		0.30		0.90	MADE GROUND: Straw yellow/brown sandy gravel. Coarse gravel of concrete, cement and clinker (Tank base hardcore rubble). Stained grey/green at base with solvent odour (3,3).	
1.10	ES		0.00		1.20	MADE GROUND: Concrete slab.	
End of Trial Pit at 1.20 m							
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered				Stability: Trial Pit was stable.		General Remarks: Pit terminated at 1.2m on concrete.	

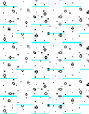
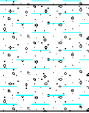
Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP				Start Date: 26/01/2011 End Date: 26/01/2011		Site Level (mAOD): - Easting: 271442.00 Northing: 196087.00	
Trial Pit Length:				Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: CAT 210 Excavator Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.10	ES					MADE GROUND: Brown clayey gravelly sand. Coarse gravel of subrounded to subangular sandstone, brick and concrete. Occasional whole brick and concrete cobbles. Rare re-bar (1,0).	
0.40	ES		1.20				
0.80	ES						
1.30	ES EW		0.10 0.20		1.20 1.30 1.50	MADE GROUND: Concrete slab.	
						MADE GROUND: Grey sandy gravel. Coarse gravel of cement and clinker (Tank base hardcore rubble) lube oil on gravel (5,3). End of Trial Pit at 1.50 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: Ingress of water with solvent at 1.3m				Stability: Trial Pit was stable.		General Remarks: Pit terminated at 1.5m due to water ingress.	

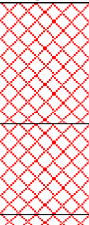
Site: Coed Darcy Urban Village			Start Date: 26/01/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 26/01/2011		Easting: 271482.00	
Project No: DIME VP					Northing: 196057.00	
			Excavation Method:			
Trial Pit Length:		Trial Pit Width:		Plant: CAT 210 Excavator		
Logged By: Alex Mann		Checked By:		Shoring/Support: None		
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.10	ES					MADE GROUND: Brown clayey gravelly sand. Coarse gravel of subrounded to subangular sandstone, brick and concrete. Occasional whole brick and concrete cobbles. Rare re-bar (1,0).
0.40	ES		0.80			
0.80	EW				0.80	MADE GROUND Stained black/grey (4,3) clayey gravelly sand with coarse gravel of brick and cement.
0.90	ES		0.50			
1.30	ES				1.30	Stiff orange brown gravelly sandy CLAY. Coarse gravel of quartz.
1.60	ES		0.50			
					1.80	End of Trial Pit at 1.80 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Rapid ingress of water at 0.8m in south west corner. Solvent and oily water			Stability: Trial Pit was stable.		General Remarks: Pit terminated at 1.8m due to water ingress.	

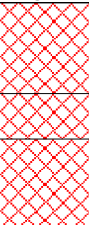
Site: Coed Darcy Urban Village			Start Date: 26/01/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 26/01/2011		Easting: 271522.00	
Project No: DIME VP					Northing: 196033.00	
			Excavation Method:			
Trial Pit Length:		Trial Pit Width:		Plant: CAT 210 Excavator		
Logged By: Alex Mann		Checked By:		Shoring/Support: None		
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.10	ES		0.50			MADE GROUND: Brown clayey gravelly sand. Coarse gravel of subrounded to subangular sandstone, brick and concrete. Occasional whole brick and concrete cobbles. Rare re-bar (1,0).
0.40	ES				0.50	
0.50	EW		0.30		0.80	
0.60	ES		0.60			MADE GROUND: Stained grey/green sandy gravel. Gravel of hardcore tank base rubble (3,2).
1.20	ES				1.40	Stained black/grey (2,2) clayey sandy GRAVEL. Coarse gravel of sandstone and quartz.
1.60	ES		0.40		1.80	Brown sandy gravelly CLAY. Coarse gravel of quartz.
End of Trial Pit at 1.80 m						
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Rapid ingress of water at 0.5m. Lube oil on surface			Stability: Trial Pit was stable.		General Remarks: Pit terminated at 1.8m due to water ingress.	

Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP				Start Date: 26/01/2011 End Date: 26/01/2011		Site Level (mAOD): - Easting: 271514.00 Northing: 196063.00	
Trial Pit Length:				Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: CAT 210 Excavator Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.10	ES		0.20		0.20	MADE GROUND: Brown clayey gravelly sand. Coarse gravel of subrounded to subangular sandstone, brick and concrete. Occasional whole brick and concrete cobbles. Rare re-bar (1,0). MADE GROUND: Brown stained black (4,2) clayey gravelly sand. Coarse gravel of subrounded to subangular sandstone, brick and concrete. Occasional whole brick and concrete cobbles. Rare re-bar (1,0). MADE GROUND: Black sandy gravel. Free product on coarse gravel of sandstone (5,2). End of Trial Pit at 1.20 m	
0.40	ES		0.80				
0.80	ES		0.20				
1.00	EW						
1.10	ES				1.20		
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: Water ingress with free product at 1.0m				Stability: Trial Pit was stable.		General Remarks: Pit terminated at 1.2m due to water ingress.	

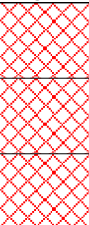
Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP				Start Date: 26/01/2011 End Date: 26/01/2011		Site Level (mAOD): - Easting: 271484.00 Northing: 196083.00	
Trial Pit Length:				Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: CAT 210 Excavator Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.10	ES					MADE GROUND: Brown clayey gravelly sand. Coarse gravel of subrounded to subangular sandstone, brick and concrete. Occasional whole brick and concrete cobbles. Rare re-bar (2,1).	
0.40	ES		0.80				
0.80	ES				0.80		Brown sandy gravelly CLAY. Coarse gravel of quartz and sandstone. Local grey clay pockets (1,0).
1.20	EW				1.20		
1.40	ES				1.30		Brown sandy gravelly CLAY. Coarse gravel of quartz and sandstone.
					2.50	End of Trial Pit at 2.50 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: Water seepage at 1.2m				Stability: Trial Pit collapsed.		General Remarks: Pit terminated due to collapse.	

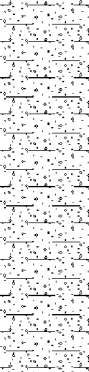
Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP			Start Date: 26/01/2011 End Date: 26/01/2011		Site Level (mAOD): - Easting: 271459.00 Northing: 196104.00	
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: CAT 210 Excavator Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.10	ES		0.30		0.30	MADE GROUND: Brown clayey gravelly sand. Coarse gravel of subrounded to subangular sandstone, brick and concrete. Occasional whole brick and concrete cobbles. Rare re-bar (1,0).
0.30	ES		0.10		0.40	
0.70	ES					MADE GROUND: Black ashy clay (3,1).
1.20	ES		1.40			Brown/light grey gravelly very sandy CLAY. Coarse gravel of sandstone (1,0).
2.00	ES		0.70		1.80	Brown gravelly sandy CLAY. Coarse gravel of sandstone. Frequent cobbles and boulders of sandstone (0,0).
					2.50	End of Trial Pit at 2.50 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: slight water ingress at 0.4m			Stability: Trial Pit was stable.		General Remarks: Pit terminated in natural soils.	

Site: Coed Darcy Urban Village				Start Date: 26/01/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd				End Date: 26/01/2011		Easting: 271423.00	
Project No: DIME VP						Northing: 196115.00	
Trial Pit Length:				Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: CAT 210 Excavator	
						Shoring/Support: None	
Samples & Tests			Strata Details				
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.10	ES					MADE GROUND: Brown clayey gravelly sand. Coarse gravel of subrounded to subangular sandstone, brick and concrete and grey/green stained tank base rubble. Occasional whole brick and concrete cobbles. Rare re-bar (2,1).	
0.40	ES		0.80				
0.80	ES		0.60		0.80		
1.40	ES EW		0.10		1.40	MADE GROUND: Green/grey stained sandy gravel. Coarse gravel of tank base rubble (3,2).	
					1.50	MADE GROUND: Green/grey stained black (4,3), sandy gravel. Coarse gravel of tank base rubble (3,2).	
End of Trial Pit at 1.50 m							
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: Ingress of water with sheen and lube oil at 1.4m			Stability: Trial Pit was stable.			General Remarks: Pit terminated at 1.5m due to water ingress.	

Site: Coed Darcy Urban Village			Start Date: 26/01/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 26/01/2011		Easting: 271388.00	
Project No: DIME VP					Northing: 196132.00	
			Excavation Method:			
Trial Pit Length:		Trial Pit Width:		Plant: CAT 210 Excavator		
Logged By: Alex Mann		Checked By:		Shoring/Support: None		
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.10	ES					MADE GROUND: Brown clayey gravelly sand. Coarse gravel of subrounded to subangular sandstone, brick and concrete. Occasional whole brick and concrete cobbles. Rare re-bar (1,0).
0.40	ES		0.60		0.60	
0.80	ES		0.30		0.90	MADE GROUND: Dark brown clayey sand (2,1).
1.20	ES		0.60		1.50	MADE GROUND: Green/grey/black stained sandy gravel. Coarse gravel of tank base rubble (4,3).
1.30	EW					End of Trial Pit at 1.50 m
General Notes: - All linear dimensions are in metres unless otherwise stated - All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Ingress of water with lube oil at 1.3m			Stability: Trial Pit was stable.		General Remarks: Pit terminated at 1.5m due to water ingress.	

Site: Coed Darcy Urban Village			Start Date: 27/01/2011		Site Level (mAOD): -		
Client: St. Modwen Development Ltd			End Date: 27/01/2011		Easting: 271367.00		
Project No: DIME VP					Northing: 196157.00		
Trial Pit Length:			Trial Pit Width:		Excavation Method:		
Logged By: Alex Mann			Checked By:		Plant: CAT 210 Excavator		
					Shoring/Support: None		
Samples & Tests			Strata Details				
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.10	ES		0.50			MADE GROUND: Brown clayey gravelly sand. Coarse gravel of subrounded to subangular sandstone, brick and concrete. Occasional whole brick and concrete cobbles. Rare re-bar (1,0).	
0.40	ES				0.50		
0.60	ES		0.30		0.80		
1.00	EW		0.50			MADE GROUND: Stained black (3,2) slightly clayey sand. Gravel of cement and quartz.	
1.10	ES				1.30		
1.40	ES		0.20		1.50		
MADE GROUND: Green/grey stained sandy gravel. Coarse gravel of tank base rubble (3,2). MADE GROUND: Green/grey stained black (4,3) sandy gravel. Coarse gravel of tank base rubble (3,2). End of Trial Pit at 1.50 m							
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: Water ingress with lube oil at 1.0m			Stability: Trial Pit was stable.		General Remarks: Pit terminated at 1.5m due to groundwater ingress.		

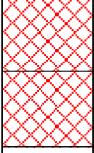
Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP				Start Date: 27/01/2011 End Date: 27/01/2011		Site Level (mAOD): - Easting: 271406.00 Northing: 196141.00	
Trial Pit Length:				Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: CAT 210 Excavator Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.10	ES		0.50			MADE GROUND: Brown clayey gravelly sand. Coarse gravel of subrounded to subangular sandstone, brick and concrete. Occasional whole brick and concrete cobbles. Rare re-bar (1,0).	
0.40	ES		0.50		0.50		
0.80	ES		0.50		1.00		
1.20	ES EW		0.50		1.50		
						MADE GROUND: Black clayey gravelly sand (2,1). Coarse gravel of brick and concrete.	
						MADE GROUND: Green/grey/ straw yellow gravel. Gravel of tank base rubble (3,2). End of Trial Pit at 1.50 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: Water ingress with lube oil at 1.2m				Stability: Trial Pit was stable.		General Remarks: Pit terminated at 1.5m due to groundwater ingress.	

Site: Coed Darcy Urban Village			Start Date: 27/01/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 27/01/2011		Easting: 271449.00	
Project No: DIME VP			Northing: 196140.00			
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: CAT 210 Excavator	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.10	ES					MADE GROUND: Brown clayey gravelly sand. Coarse gravel of subrounded to subangular sandstone, brick and concrete. Occasional whole brick and concrete cobbles. Rare re-bar (1,0).
0.40	ES		1.00			
0.80	ES				1.00	Brown frequently stained grey (2,2) slightly gravelly clayey SAND. Coarse gravel of quartz.
1.20	ES					
1.80	ES					
2.20	ES		2.50			
2.80	ES					
3.20	ES					
					3.50	End of Trial Pit at 3.50 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Water ingress with light sheen at 3.2m			Stability: Trial Pit collapsed.		General Remarks: Pit terminated due to collapse.	

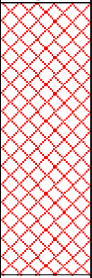
Site: Coed Darcy Urban Village			Start Date: 27/01/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 27/01/2011		Easting: 271492.00	
Project No: DIME VP					Northing: 196128.00	
			Excavation Method:			
Trial Pit Length:		Trial Pit Width:		Plant: CAT 210 Excavator		
Logged By: Alex Mann		Checked By:		Shoring/Support: None		
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.10	ES					MADE GROUND: Brown clayey gravelly sand. Coarse gravel of subrounded to subangular sandstone, brick and concrete. Occasional whole brick and concrete cobbles. Rare re-bar (1,0).
0.40	ES		1.00			
0.80	ES					
1.00	EW		0.20		1.00	Quartz GRAVEL (2,2).
1.20	ES				1.20	Brown gravelly sandy CLAY. Coarse gravel of sandstone and quartz (0,0).
2.00	ES		1.30			
					2.50	End of Trial Pit at 2.50 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Multiple water ingress points at 1.0m			Stability: Trial Pit collapsing at 2m.		General Remarks: Pit terminated at 2.5m due to water ingress.	

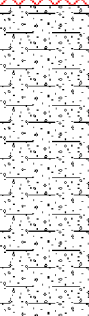
Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP				Start Date: 27/01/2011 End Date: 27/01/2011		Site Level (mAOD): - Easting: 271535.00 Northing: 196101.00	
Trial Pit Length:				Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: CAT 210 Excavator Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.10	ES		0.20		0.20	MADE GROUND: Brown clayey gravelly sand. Coarse gravel of subrounded to subangular sandstone, brick and concrete. Occasional whole brick and concrete cobbles. Rare re-bar (1,0).	
0.40	ES						
0.80	ES EW		1.00				
1.30	ES				1.20	Stained black gravelly clayey SAND (4,3) frequent gravel of sandstone cobbles.	
1.90	ES		0.60				
			0.20		1.80	Brown stained grey (3,3) sandy gravelly CLAY. Gravel of sandstone and quartz.	
					2.00	Brown sandy gravelly CLAY. Gravel of sandstone and quartz.	
						End of Trial Pit at 2.00 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: Rapid ingress of water with heavy sheen at 0.8m			Stability: Trial Pit collapsing at 2m.			General Remarks: Pit terminated due to collapse.	

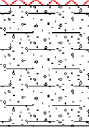
Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP			Start Date: 27/01/2011 End Date: 27/01/2011		Site Level (mAOD): - Easting: 271571.00 Northing: 196077.00	
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: CAT 210 Excavator Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.10	ES					
0.40	ES		0.70		0.70	MADE GROUND: Brown clayey gravelly sand. Coarse gravel of subrounded to subangular sandstone, brick and concrete. Occasional whole brick and concrete cobbles. Rare re-bar (1,0).
0.90	ES		0.70			MADE GROUND: Stained black (3,3) clayey gravelly sand. Gravel of brick and sandstone.
1.30	ES				1.40	
1.90	ES		1.10			Brown stained grey (2,2) sandy gravelly CLAY. Gravel of sandstone and quartz.
2.30	ES				2.50	End of Trial Pit at 2.50 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Light water seepage at 1.4m			Stability: Trial Pit collapsing at 2m.		General Remarks: Pit terminated due to collapse.	

Site: Coed Darcy Urban Village			Start Date: 23/02/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 23/02/2011		Easting: 271556.00	
Project No: DIME VP					Northing: 196118.00	
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu 210 Excavator	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
			0.50		0.50	MADE GROUND: Crimson red light brown sandy gravel. Coarse gravel of clinker and brick
			0.50			MADE GROUND: Stained grey (2,2) sandy ashy clay.
			0.00		1.00	Concrete End of Trial Pit at 1.00 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Light water seepage at 1.0m with product on surface			Stability: Trial pit stable		General Remarks: Pit terminated on concrete	

Site: Coed Darcy Urban Village				Start Date: 23/02/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd				End Date: 23/02/2011		Easting: 271585.00	
Project No: DIME VP						Northing: 196117.00	
Trial Pit Length:				Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: Komatsu 210 Excavator	
						Shoring/Support: None	
Samples & Tests			Strata Details				
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.10	ES		0.50		0.50	MADE GROUND: Brown sandy gravel. Coarse gravel of brick, quartz and concrete	
0.30	ES						
0.50	EW		0.20		0.70	Orange brown clayey gravelly sand. Coarse gravel of sandstone and quartz (0,0)	
0.60	ES					End of Trial Pit at 0.70 m	
General Notes: - All linear dimensions are in metres unless otherwise stated - All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: Rapid ingress of water at 0.5m			Stability: Trial pit stable			General Remarks: Pit terminated due to water ingress	

Site: Coed Darcy Urban Village			Start Date: 23/02/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 23/02/2011		Easting: 271592.00	
Project No: DIME VP			Northing: 196091.00			
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu 210 Excavator	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.10	ES					MADE GROUND: Brown clayey gravelly sand. Coarse gravel of brick, concrete and quartz. Occasional boulders of concrete and brickwork. Rare pipe work
0.30	ES					
0.60	ES		1.80			
1.20	ES					
1.60	ES EW				1.80	
						End of Trial Pit at 1.80 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Water ingress at 1.6m			Stability: Trial pit stable		General Remarks: Pit terminated due to water ingress	

Site: Coed Darcy Urban Village			Start Date: 24/02/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 24/02/2011		Easting: 271450.00	
Project No: DIME VP			Northing: 195950.00			
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu 210 Excavator	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.10	ES					MADE GROUND: Locally stained (1,1) , brown clayey gravelly sand. Coarse gravel of brick, concrete, quartz and sandstone. Occasional rebar.
0.20	ES					
0.70	ES		1.20			
1.20	ES				1.20	Brown gravelly clayey sand. Coarse gravel of sandstone and quartz. Potential reworked natural (0,0)
1.70	ES					
2.20	ES		2.10			
2.70	ES					
3.30	ES					
			0.20		3.30	Orange brown slightly gravelly sandy clay (0,0). Coarse gravel of sandstone
					3.50	
End of Trial Pit at 3.50 m						
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Slight seepage at 1.2m			Stability: Trial pit stable		General Remarks: Pit terminated in natural soils	

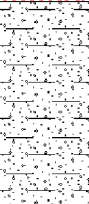
Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP			Start Date: 24/02/2011 End Date: 24/02/2011		Site Level (mAOD): - Easting: 271424.00 Northing: 195938.00								
Trial Pit Length:			Trial Pit Width:		Excavation Method:								
Logged By: Alex Mann			Checked By:		Plant: Komatsu 210 Excavator Shoring/Support: None								
Samples & Tests			Strata Details										
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description							
0.10	ES		0.20		0.20	MADE GROUND: Brown clayey gravelly sand. Coarse gravel of brick and sandstone							
0.20	ES												
0.70	ES		1.00			MADE GROUND: Stained grey (1,1) gravelly clayey sand. Gravel of quartz and sandstone. Rare pipework blocked with stained gravels (4,2)							
1.20	ES												
1.70	ES		0.80		1.20	Brown gravelly clayey sand. Coarse gravel of quartz and sandstone (0,0)							
					2.00	End of Trial Pit at 2.00 m							

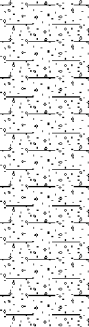
General Notes:

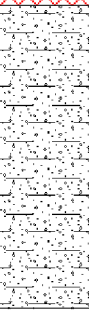
- All linear dimensions are in metres unless otherwise stated
- All relative density/shear strength descriptions are based only on field observations and available in-situ test data.

Groundwater Observations: Rapid ingress of water at 0.5m	Stability: Trial pit stable	General Remarks: Pit terminated due to rapid ingress of water
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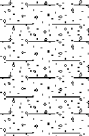
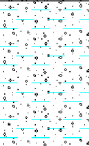
Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP				Start Date: 24/02/2011 End Date: 24/02/2011		Site Level (mAOD): - Easting: 271398.00 Northing: 195953.00	
Trial Pit Length:				Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: Komatsu 210 Excavator Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.10	ES		0.20		0.20	MADE GROUND: light brown clayey gravelly sand. Coarse gravel of brick and sandstone	
0.20	ES						
0.70	ES					Brown clayey gravelly sand. Coarse gravel of sandstone and quartz. Increased gravel density with depth. Occasional boulders of sandstone	
1.50	ES		2.80				
2.50	ES						
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered			Stability: Trial pit stable			General Remarks: Pit terminated due to difficult dig	

Site: Coed Darcy Urban Village			Start Date: 24/02/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 24/02/2011		Easting: 271422.00	
Project No: DIME VP					Northing: 195972.00	
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu 210 Excavator	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.10	ES					MADE GROUND: Brown clayey gravelly sand. Gravel is brick and sandstone. Occasional grey clay pockets (1,0)
0.20	ES					
0.70	ES		1.40			
1.50	ES				1.40	Brown gravelly clayey sand. Gravel is sandstone and quartz. Occasional sandstone boulders (0,0)
2.30	ES		1.40			
2.90	ES		0.20		2.80	Stiff orange brown gravelly sandy CLAY. Coarse gravel of weathered sandstone.
					3.00	
End of Trial Pit at 3.00 m						
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Slight water seepage at 1.6m			Stability: Trial pit stable		General Remarks: Pit terminated due to difficult dig	

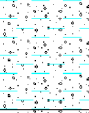
Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP			Start Date: 24/02/2011 End Date: 24/02/2011		Site Level (mAOD): - Easting: 271400.00 Northing: 195994.00	
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu 210 Excavator Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.10	ES					MADE GROUND: orange brown clayey gravelly sand. Coarse gravel of brick, concrete and sandstone (0,0)
0.20	ES					
0.60	ES		1.00			
1.20	ES				1.00	Light grey stained (4,3) gravelly clayey sand. Coarse gravel of sandstone and quartz. Sheen on gravel. Frequent grey clay pockets
1.60	ES					
2.20	ES		2.20			
2.60	ES					
3.20	ES					
			0.30		3.20	Orange brown gravelly clay. Coarse gravel of sandstone
					3.50	End of Trial Pit at 3.50 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Trial pit stable		General Remarks: Pit terminated in natural soils	

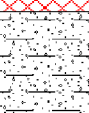
Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP			Start Date: 24/02/2011 End Date: 24/02/2011		Site Level (mAOD): - Easting: 271388.00 Northing: 196025.00	
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu 210 Excavator Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.10	ES		0.20		0.20	MADE GROUND: brown gravelly clayey sand. Coarse gravel of brick and concrete.
0.20	ES		0.10		0.30	As above , stained grey (3,3)
1.20	ES		1.20		1.50	MADE GROUND: Brown gravelly clayey sand. Coarse gravel of brick, sandstone and quartz (0,0). Occasional wood and pipework
2.70	ES		2.00			Brown gravelly clayey sand. Coarse gravel of quartz and sandstone (0,0)
					3.50	End of Trial Pit at 3.50 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Trial pit stable		General Remarks: Pit terminated due to difficult dig	

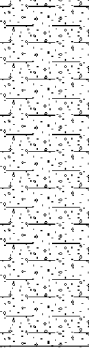
Site: Coed Darcy Urban Village			Start Date: 24/02/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 24/02/2011		Easting: 271347.00	
Project No: DIME VP					Northing: 196013.00	
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu 210 Excavator	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.10	ES		0.20		0.20	MADE GROUND: Brown gravelly clayey sand: Coarse gravel of brick
0.20	ES		0.60			
0.80	ES		0.60		0.80	MADE GROUND: Brown gravelly sand. Frequent gravel of fine - medium concrete crush
1.20	ES		0.60			Brown sandy clay (0,0)
1.80	ES		1.10		1.40	Orange brown sandy gravelly clay. Coarse gravel of sandstone and quartz (0,0)
2.20	ES		1.10			
2.80	ES		0.50		2.50	Stiff dark grey gravelly clay. Coarse gravel of quartz and sandstone (0,0)
			0.50			End of Trial Pit at 3.00 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Slight water seepage at 1.5m			Stability: Trial pit stable		General Remarks: Pit terminated due to difficult dig	

Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP			Start Date: 24/02/2011 End Date: 24/02/2011		Site Level (mAOD): - Easting: 271314.00 Northing: 196025.00	
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu 210 Excavator Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.10 0.20	ES ES		1.00			MADE GROUND: Brown clayey gravelly sand. Coarse gravel of brick and sandstone
0.70 1.00 1.20	ES EW ES		1.00		1.00	Brown gravelly clayey sand. Coarse gravel of sandstone and quartz (0,0)
1.70 2.20 2.70	ES ES ES		1.00		2.00 3.00	Orange brown clayey gravelly sand. Coarse gravel of sandstone and quartz (0,0)
						End of Trial Pit at 3.00 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Rapid ingress of water at 1.0m			Stability: Trial pit stable		General Remarks: Pit terminated due to water ingress	

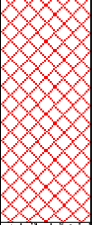
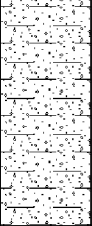
Site: Coed Darcy Urban Village			Start Date: 25/02/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 25/02/2011		Easting: 271347.00	
Project No: DIME VP			Northing: 196054.00			
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu 210 Excavator	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.10	ES		0.20		0.20	MADE GROUND: Brown gravelly clayey sand. Coarse gravel of brick
0.20	ES					
0.70	ES		0.80			Orange brown clayey gravelly sand. Coarse gravel of sandstone and quartz (0,0)
1.20	ES		0.50		1.00	As above , stained grey (2,1)
					1.50	End of Trial Pit at 1.50 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Water ingress at 0.7m			Stability: Trial pit collapsed at 1.5m		General Remarks: Pit terminated due to collapse	

Site: Coed Darcy Urban Village			Start Date: 25/02/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 25/02/2011		Easting: 271280.00	
Project No: DIME VP			Northing: 196169.00			
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Komatsu 210 Excavator	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.10	ES		0.50			MADE GROUND: Brown gravelly clayey sand. Coarse gravel of quartz, sandstone, cement and brick
0.20	ES				0.50	
0.60	ES		0.20		0.70	MADE GROUND: Black stained (4,2) gravel. Medium to coarse gravels of ash, clinker and slag.
1.20	ES		0.90			Grey sandy gravelly clay. Coarse Gravel of sandstone and quartz (2,2)
1.50	EW				1.60	
1.60	ES		0.40		2.00	Grey gravelly sandy clay. Coarse gravel of quartz. Product on gravel (5,3)
						End of Trial Pit at 2.00 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Water and product ingress at 1.5m			Stability: Trial pit stable		General Remarks: Pit terminated due to rapid ingress of water	

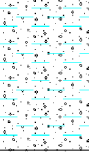
Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP				Start Date: 25/02/2011 End Date: 25/02/2011		Site Level (mAOD): - Easting: 271311.00 Northing: 196188.00	
Trial Pit Length:				Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: Komatsu 210 Excavator Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.10	ES						
0.20	ES		0.80			MADE GROUND: Dark brown gravelly clayey sand. Coarse gravel of brick, cement and sandstone. Occasional quartz cobbles and concrete blocks (50cm) and metal.	
0.80	ES				0.80	Stained grey (3,2) clayey gravelly sand. Coarse gravel of sandstone	
1.20	ES		0.70				
1.80	ES		0.50		1.50	Orange brown clayey gravelly sand. Coarse gravel of sandstone and quartz (0,0)	
					2.00	End of Trial Pit at 2.00 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: Slight water seepage at 0.8m			Stability: Trial pit stable			General Remarks: Pit terminated in natural soils.	

Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP				Start Date: 25/02/2011 End Date: 25/02/2011		Site Level (mAOD): - Easting: 271343.00 Northing: 196179.00	
Trial Pit Length:				Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: Komatsu 210 Excavator Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.10	ES					MADE GROUND: Grey and brick red sandy gravel. Fine to coarse gravels of brick, concrete and sandstone	
0.20	ES						
0.80	ES		1.20				
1.40	ES				1.20	Stained grey (3,2) clayey gravelly sand. Coarse gravel of sandstone	
2.40	ES		2.30				
3.40	ES						
					3.50	End of Trial Pit at 3.50 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: Slight water seepage with product at 1.2m				Stability: Trial pit collapsed at 3.5m		General Remarks: Pit terminated due to collapse.	

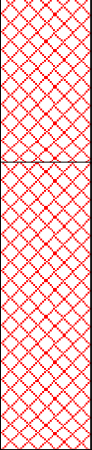
Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP				Start Date: 18/04/2011 End Date: 18/04/2011		Site Level (mAOD): - Easting: 271482.00 Northing: 195933.00	
Trial Pit Length:				Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: Hitachi 170 RD Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.30	ES					MADE GROUND. Brown gravelly sandy CLAY. Pockets of localised staining (2,1). Coarse gravel of brick, concrete and sandstone. Occasional sandstone boulders.	
0.80	ES		2.20				
1.40	ES						
2.40	ES		0.30		2.20	Brown sandy gravelly CLAY. Coarse gravel of sandstone (0,0) End of Trial Pit at 2.50 m	
					2.50		
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: Water seepage at 2.3m				Stability: Trial pit stable		General Remarks: Pit terminated in natural soils.	

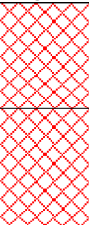
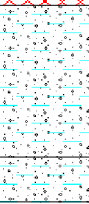
Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP				Start Date: 18/04/2011 End Date: 18/04/2011		Site Level (mAOD): - Easting: 271466.00 Northing: 195916.00			
Trial Pit Length:				Trial Pit Width:		Excavation Method:			
Logged By: Alex Mann				Checked By:		Plant: Hitachi 170 RD Shoring/Support: None			
Samples & Tests				Strata Details					
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description			
0.50	ES		1.50		1.50	MADE GROUND. Brown clayey gravelly SAND. Coarse gravel of concrete, brick and sandstone. Frequent boulder size concrete blocks (1,0)			
1.00	ES						1.50	Orange brown clayey gravelly sand. Coarse gravel of sandstone and quartz (0,0)	
1.50	ES							3.00	End of Trial Pit at 3.00 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.									
Groundwater Observations: No groundwater encountered				Stability: Trial pit stable		General Remarks: Pit terminated in natural soils.			

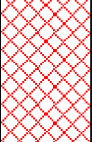
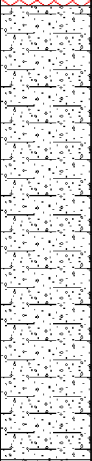
Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP				Start Date: 18/04/2011 End Date: 18/04/2011		Site Level (mAOD): - Easting: 271457.00 Northing: 195900.00	
Trial Pit Length:				Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: Hitachi 170 RD Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.20	ES					MADE GROUND. Brown clayey gravelly SAND. Coarse gravel of concrete, brick and sandstone. (1,0)	
1.00	ES					Recovered as weathered sandstone	
			0.80		1.20		
					2.00	End of Trial Pit at 2.00 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: Groundwater ingress with slight sheen at 1.2m			Stability: Trial pit stable			General Remarks: Pit terminated on bedrock	

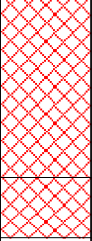
Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP				Start Date: 18/04/2011 End Date: 18/04/2011		Site Level (mAOD): - Easting: 271443.00 Northing: 195931.00	
Trial Pit Length:				Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: Hitachi 170 RD Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.20	ES					MADE GROUND. Brown clayey gravelly SAND. Coarse gravel of concrete, brick and sandstone. (1,0)	
0.70	ES						
1.50	ES		2.50				
2.50	ES				2.50	Brown sandy gravelly CLAY. Gravel of sandstone. Occasional sandstone cobbles (0,0)	
			1.00			3.50	End of Trial Pit at 3.50 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered				Stability: Trial pit stable		General Remarks: Pit terminated in natural soils.	

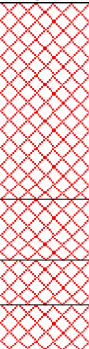
Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP				Start Date: 18/04/2011 End Date: 18/04/2011		Site Level (mAOD): - Easting: 271423.00 Northing: 195924.00		
Trial Pit Length:				Trial Pit Width:		Excavation Method:		
Logged By: Alex Mann				Checked By:		Plant: Hitachi 170 RD Shoring/Support: None		
Samples & Tests				Strata Details				
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description		
0.20	ES					MADE GROUND. Orange mottled grey gravelly clayey SAND. Coarse gravel of concrete and sandstone (0,0)		
0.50	ES		1.00			1.00	Stiff brown/grey gravelly clayey SAND. Coarse gravel of sandstone (0,0)	
1.50	ES		2.00					
2.50	ES					3.00	End of Trial Pit at 3.00 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.								
Groundwater Observations: No groundwater encountered				Stability: Trial pit stable		General Remarks: Pit terminated in natural soils.		

Site: Coed Darcy Urban Village			Start Date: 18/04/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 18/04/2011		Easting: 271387.00	
Project No: DIME VP					Northing: 195960.00	
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Hitachi 170 RD	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.20	ES		1.10		1.10	MADE GROUND. Brown light stained grey clayey gravelly SAND. Coarse gravel of sandstone and brick (1,2)
0.80	ES					
1.50	ES		1.90			MADE GROUND. Brown clayey gravelly SAND. Coarse gravel of sandstone. (0,0)
2.50	ES					
					3.00	End of Trial Pit at 3.00 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Trial pit stable		General Remarks: Pit terminated due to difficult dig	

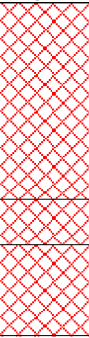
Site: Coed Darcy Urban Village			Start Date: 18/04/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 18/04/2011		Easting: 271383.00	
Project No: DIME VP					Northing: 195994.00	
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Hitachi 170 RD	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.50	ES		0.70		0.70	MADE GROUND. Brown gravelly SAND. Coarse gravel of brick, sandstone and concrete (0,0)
1.00	ES		0.80		MADE GROUND. Stained grey gravelly clayey SAND. Coarse gravel of brick and sandstone (1,1)	
1.50	ES		1.00		Orange brown sandy gravelly clay. Coarse gravel of sandstone (0,0)	
2.50	ES		0.30		2.50	Stiff grey slightly sandy gravelly CLAY. Coarse gravel of sandstone cobbles (0,0)
					2.80	End of Trial Pit at 2.80 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Trial pit stable		General Remarks: Pit terminated in natural soils.	

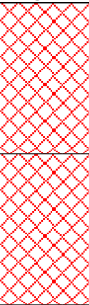
Site: Coed Darcy Urban Village			Start Date: 18/04/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 18/04/2011		Easting: 271321.00	
Project No: DIME VP			Northing: 196046.00			
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Hitachi 170 RD	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.50	ES		1.00		1.00	MADE GROUND. Brown gravelly SAND. Coarse gravel of brick, sandstone and concrete (0,0)
1.50	ES					Locally stained clayey gravelly SAND. Coarse gravel of sandstone (1,2)
2.50	ES		3.00			
3.50	ES				4.00	End of Trial Pit at 4.00 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Trial pit stable		General Remarks: Pit terminated in natural soils.	

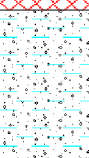
Site: Coed Darcy Urban Village			Start Date: 12/05/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 12/05/2011		Easting: 271391.00	
Project No: DIME VP					Northing: 196153.00	
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.40	ES		1.20		1.20	MADE GROUND. Brown gravelly SAND. Coarse gravel of brick, sandstone and concrete. Occasional wood and rope (2,1)
0.80	ES					
1.20	ES		0.40		1.60	MADE GROUND. Stained green (2,4) hardcore GRAVEL. Fine - Coarse gravel of slag and concrete
						End of Trial Pit at 1.60 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Ingress of water, solvent and product at 1.2m			Stability: Trial pit stable		General Remarks: Pit terminated due to rapid ingress of water	

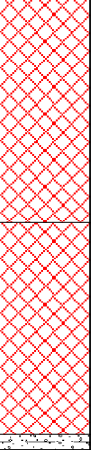
Site: Coed Darcy Urban Village			Start Date: 12/05/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 12/05/2011		Easting: 271424.00	
Project No: DIME VP					Northing: 196149.00	
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.50	ES		1.30			MADE GROUND. Brown gravelly SAND. Coarse gravel of brick, sandstone and concrete. (1,1)
1.00	ES					
1.40	ES		0.40		1.30	MADE GROUND. Stained green (2,4) hardcore GRAVEL. Fine
1.70	W		0.30		1.70	- Coarse gravel of slag and concrete
1.80	ES		0.30		2.00	As above with viscous straw coloured lube oil (5,3)
2.20	ES		0.30		2.30	MADE GROUND. Brown sandy gravel. Coarse gravel of sandstone (1,1)
						End of Trial Pit at 2.30 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Ingress of water and solvent at 1.7m			Stability: Trial Pit stable		General Remarks: Pit terminated due to rapid ingress of water	

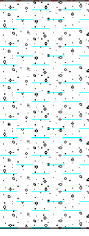
Site: Coed Darcy Urban Village			Start Date: 12/05/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 12/05/2011		Easting: 271442.00	
Project No: DIME VP					Northing: 196141.00	
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.20	ES					MADE GROUND. Brown gravelly SAND. Coarse gravel of brick, sandstone and concrete (0,0)
0.80	ES		1.50			
2.00	ES		1.50		1.50	MADE GROUND. Grey (1,1) sandy gravelly CLAY. Coarse gravel of sandstone and quartz. Occasional metal
3.20	ES		0.50			
					3.00	Light brown gravelly sandy CLAY. Coarse gravel of sandstone (0,0)
					3.50	End of Trial Pit at 3.50 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Trial pit stable		General Remarks: Pit terminated in natural soils.	

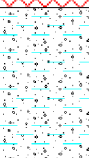
Site: Coed Darcy Urban Village			Start Date: 12/05/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 12/05/2011		Easting: 271428.00	
Project No: DIME VP			Northing: 196128.00			
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.50	ES		1.30			MADE GROUND. Brown gravelly SAND. Coarse gravel of brick, sandstone and concrete. Occasional concrete boulders, metal and wood (0,0)
1.40	ES		0.30		1.30	MADE GROUND. Stained green (2,4) hardcore GRAVEL. Fine
1.60	W				1.60	- Coarse gravel of slag and concrete
2.00	ES		0.60		2.20	MADE GROUND. Brown/grey sandy GRAVEL. Coarse gravel of slag, brick and sandstone. (2,3)
End of Trial Pit at 2.20 m						
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Ingress of water with heavy sheen at 1.6m			Stability: Trial pit stable		General Remarks: Pit terminated due to rapid ingress of water	

Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP			Start Date: 12/05/2011 End Date: 12/05/2011		Site Level (mAOD): - Easting: 271447.00 Northing: 196121.00	
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210 Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.50	ES		1.00		1.00	MADE GROUND. Brown gravelly SAND. Coarse gravel of brick, sandstone and concrete. Occasional pipework (0,0)
1.50	ES		1.00		2.00	MADE GROUND. Reworked natural grey (2,1) gravelly sandy CLAY. Coarse gravel of sandstone
2.50	ES		1.60		3.60	Light brown occasionally stained grey (1,1) sandy gravelly CLAY. Coarse gravel of sandstone
3.50	ES					End of Trial Pit at 3.60 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Slight ingress at 3.0m			Stability: Trial pit stable		General Remarks: Pit terminated in natural soils.	

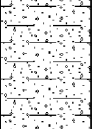
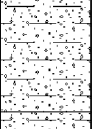
Site: Coed Darcy Urban Village			Start Date: 12/05/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 12/05/2011		Easting: 271458.00	
Project No: DIME VP			Northing: 196138.00			
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
1.00	ES		1.50		1.50	MADE GROUND. Brown gravelly SAND. Coarse gravel of brick, sandstone and concrete. (1,1)
2.00	ES		1.00		2.50	MADE GROUND. Reworked natural grey (2,1) gravelly sandy CLAY. Coarse gravel of sandstone
3.00	ES		1.00		3.50	Brown sandy gravelly CLAY. Coarse gravel of sandstone (0,0)
						End of Trial Pit at 3.50 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Trial pit stable		General Remarks: Pit terminated in natural soils	

Site: Coed Darcy Urban Village			Start Date: 19/05/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 19/05/2011		Easting: 271459.00	
Project No: DIME VP					Northing: 196124.00	
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.80	ES		1.50			MADE GROUND. Brown gravelly SAND. Coarse gravel of brick, sandstone and concrete. (0,0)
1.60	ES		1.40		1.50	MADE GROUND. Reworked natural grey (2,1) gravelly clayey SAND. Coarse gravel of sandstone
2.50	ES		0.10		2.90	Light brown grey clayey SAND. Coarse gravel of sandstone (0,0) End of Trial Pit at 3.00 m
2.90	ES				3.00	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Slight seepage at 2.6m			Stability: Trial pit stable		General Remarks: Pit terminated in natural soils	

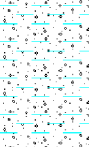
Site: Coed Darcy Urban Village			Start Date: 19/05/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 19/05/2011		Easting: 271472.00	
Project No: DIME VP					Northing: 196140.00	
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.50	ES		0.70		0.70	MADE GROUND. Brown gravelly SAND. Coarse gravel of brick, sandstone and concrete. (0,0)
1.20	ES		1.30		MADE GROUND. Reworked natural grey (3,2) gravelly clayey SAND with solvent odour. Coarse gravel of sandstone	
1.80	ES					
2.50	ES		1.50		2.00	Light brown stained grey (2,1) slightly gravelly sandy CLAY. Coarse gravel of sandstone (0,0)
					3.50	End of Trial Pit at 3.50 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Slight seepage at 3.0m			Stability: Trial pit stable		General Remarks: Pit terminated in natural soils	

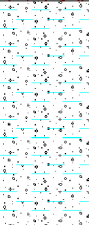
Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP				Start Date: 19/05/2011 End Date: 19/05/2011		Site Level (mAOD): - Easting: 271501.00 Northing: 196129.00	
Trial Pit Length:				Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: volvo 210 Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.30	ES					MADE GROUND. Brown gravelly SAND. Coarse gravel of brick, sandstone and concrete. Solvent odour (1,3)	
0.80	ES		1.50		1.50		
2.10	ES		1.50			MADE GROUND. Reworked natural grey (2,2) gravelly sandy CLAY. Coarse gravel of sandstone	
3.10	ES		1.00		3.00		
						Light brown stained grey (2,1) slightly gravelly sandy CLAY. Coarse gravel of sandstone (0,1)	
					4.00		
End of Trial Pit at 4.00 m							
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: Slight seepage at 3.0m				Stability: Trial pit collapsed at 3.5m		General Remarks: Pit terminated in natural soils	

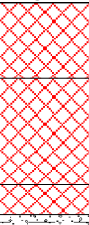
Site: Coed Darcy Urban Village			Start Date: 19/05/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 19/05/2011		Easting: 271478.00	
Project No: DIME VP			Excavation Method:			
Trial Pit Length:		Trial Pit Width:		Plant: Volvo 210		
Logged By: Alex Mann		Checked By:		Shoring/Support: None		
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.20	ES		0.40		0.40	MADE GROUND. Brown gravelly SAND. Coarse gravel of brick, sandstone and concrete. (0,0)
0.80	ES		0.30		0.70	MADE GROUND. Crimson red sandy GRAVEL. Gravel of clinker; slag and concrete (2,2)
1.50	ES		1.80			MADE GROUND. Reworked natural grey (1,1) gravelly sandy CLAY. Coarse gravel of sandstone
2.50	ES		0.50		2.50	Brown gravelly sandy CLAY. Coarse gravel of sandstone (0,0)
					3.00	End of Trial Pit at 3.00 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Slight seepage at 2.5m			Stability: Trial pit stable		General Remarks: Pit terminated in natural soils.	

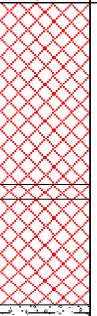
Site: Coed Darcy Urban Village			Start Date: 19/05/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 19/05/2011		Easting: 271493.00	
Project No: DIME VP					Northing: 196058.00	
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.20	ES		0.40		0.40	MADE GROUND. Brown gravelly SAND. Coarse gravel of brick, sandstone and concrete. Occasional metal (1,2)
1.00	ES		1.60			Orange brown (0,1) gravelly clayey SAND. Coarse gravel of sandstone
1.50	ES				2.00	
2.50	ES		1.00			Brown clayey gravelly SAND. Coarse gravel of sandstone.
					3.00	End of Trial Pit at 3.00 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Trial pit stable		General Remarks: Pit terminated in natural soils.	

Site: Coed Darcy Urban Village			Start Date: 19/05/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 19/05/2011		Easting: 271550.00	
Project No: DIME VP			Northing: 196073.00			
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.20	ES		0.20		0.20	MADE GROUND. Brown gravelly SAND. Coarse gravel of brick, sandstone and concrete. (0,0)
0.80	ES		1.75			MADE GROUND. Stained grey (3,2) clayey gravelly SAND. Coarse gravel of concrete, brick and sandstone. Occasional whole brick
1.30	ES					
1.80	W		0.05		1.95	CONCRETE
					2.00	End of Trial Pit at 2.00 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Ingress of water and light product at 1.8m			Stability: Trial pit stable		General Remarks: Pit terminated on concrete	

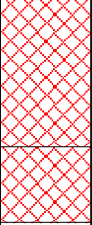
Site: Coed Darcy Urban Village			Start Date: 19/05/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 19/05/2011		Easting: 271519.00	
Project No: DIME VP			Northing: 196018.00			
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.50	ES		1.00		1.00	MADE GROUND. Stained grey (3,2) with sickly solvent odour clayey gravelly sand. Coarse gravel of sandstone, brick and cement
1.50	ES		2.00			MADE GROUND. Reworked natural grey (2,1) gravelly sandy CLAY. Coarse gravel of sandstone
2.50	ES					
3.50	ES		1.00		3.00	Light brown occasionally stained grey (1,0) gravelly clayey SAND. Coarse gravel of sandstone
					4.00	End of Trial Pit at 4.00 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Slight seepage at 3.0m			Stability: Trial pit stable		General Remarks: Pit terminated in natural soils.	

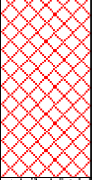
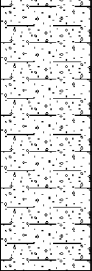
Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP			Start Date: 19/05/2011 End Date: 19/05/2011		Site Level (mAOD): - Easting: 271484.00 Northing: 196022.00	
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210 Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.20	ES		0.40		0.40	MADE GROUND. Brown gravelly SAND. Coarse gravel of brick, sandstone and concrete. (0,0)
0.80	ES		1.60			MADE GROUND. Stained grey (3,2) gravelly clayey SAND. Coarse gravel of brick and sandstone
1.50	ES					
2.50	ES		1.50		2.00	Brown occasionally stained grey (1,3) with sickly solvent odour gravelly clayey SAND
					3.50	End of Trial Pit at 3.50 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Slight seepage at 2.0m			Stability: Trial pit stable		General Remarks: Pit terminated in natural soils.	

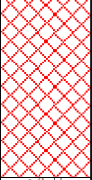
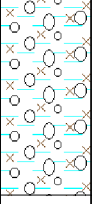
Site: Coed Darcy Urban Village			Start Date: 19/05/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 19/05/2011		Easting: 271457.00	
Project No: DIME VP			Northing: 196086.00			
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.40	ES		0.50		0.50	MADE GROUND. Brown gravelly SAND. Coarse gravel of brick, sandstone and concrete. (0,0)
0.70	ES		0.70		0.50	MADE GROUND. Grey sandy GRAVEL. Medium - Coarse gravel of slag, clinker and concrete (1,1)
1.20	ES W		0.20		1.20	As above , stained black (3,2)
			0.10		1.40	Stiff grey slightly sandy gravelly CLAY. Coarse gravel of sandstone (0,0)
					1.50	End of Trial Pit at 1.50 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Ingress of water and solvent at 1.2m			Stability: Trial pit stable		General Remarks: Pit terminated due to rapid ingress of water	

Site: Coed Darcy Urban Village			Start Date: 20/05/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 20/05/2011		Easting: 271431.00	
Project No: DIME VP			Northing: 196068.00			
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.50	ES		1.20			MADE GROUND. Brown gravelly SAND. Coarse gravel of brick, sandstone and concrete. (0,0)
1.20	ES		0.10		1.20	MADE GROUND. Stained black (5,2) sandy gravel. Coarse gravel of sandstone and hardcore. Product on gravel
1.70	ES		0.70		1.30	
2.10	W ES		0.20		2.00	MADE GROUND. Grey green (5,4) hardcore gravel. Ingress of lube oil and rapid ingress of water with solvent
					2.20	Brown mottled grey sandy gravelly CLAY. Coarse gravel of sandstone cobbles
End of Trial Pit at 2.20 m						
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Ingress of water and solvent at 1.7m			Stability: Trial pit stable		General Remarks: Pit terminated due to rapid ingress of water and solvent	

Site: Coed Darcy Urban Village			Start Date: 20/05/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 20/05/2011		Easting: 271410.00	
Project No: DIME VP			Excavation Method:			
Trial Pit Length:		Trial Pit Width:		Plant: Volvo 210		
Logged By: Alex Mann		Checked By:		Shoring/Support: None		
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.50	ES		1.00			MADE GROUND. Brown gravelly SAND. Coarse gravel of brick, sandstone and concrete. (0,0)
1.20	ES		0.50		1.00	MADE GROUND. Stained black (5,2) sandy gravel. Coarse gravel of sandstone and hardcore. Product on gravel
1.50	ES		0.20		1.50	MADE GROUND. Grey green (2,3) hardcore gravel.
2.00	ES		0.40		1.70	
			0.40		2.10	Orange brown gravelly clayey SAND (0,0). Coarse gravel of sandstone
			0.40		2.50	Sandstone bedrock
						End of Trial Pit at 2.50 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: No groundwater encountered			Stability: Trial pit stable		General Remarks: Pit terminated on bedrock	

Site: Coed Darcy Urban Village			Start Date: 20/05/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 20/05/2011		Easting: 271363.00	
Project No: DIME VP			Northing: 195980.00			
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.50	ES		1.00			MADE GROUND. Brown gravelly SAND. Coarse gravel of brick, sandstone and concrete. (0,0)
1.00	ES		0.50		1.00	MADE GROUND. Brown/grey (0,0) sandy gravelly CLAY. Coarse gravel of brick and sandstone.
					1.50	End of Trial Pit at 1.50 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Rapid ingress of water at 0.3m			Stability: Trial pit stable		General Remarks: Pit terminated due to rapid ingress of water	

Site: Coed Darcy Urban Village Client: St. Modwen Development Ltd Project No: DIME VP				Start Date: 20/05/2011 End Date: 20/05/2011		Site Level (mAOD): - Easting: 271345.00 Northing: 196005.00	
Trial Pit Length:				Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann				Checked By:		Plant: Volvo 210 Shoring/Support: None	
Samples & Tests				Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description	
0.50	ES		1.20		1.20	MADE GROUND. Brown gravelly SAND. Coarse gravel of brick, sandstone and concrete. (0,0)	
1.00	ES						
1.80	ES		1.80			Grey sandy gravelly CLAY. Coarse gravel of sandstone. Occasional pockets of pink sand and sandstone (0,0)	
2.80	ES				3.00	End of Trial Pit at 3.00 m	
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.							
Groundwater Observations: No groundwater encountered				Stability: Trial pit stable		General Remarks: Pit terminated in natural soils.	

Site: Coed Darcy Urban Village			Start Date: 20/05/2011		Site Level (mAOD): -	
Client: St. Modwen Development Ltd			End Date: 20/05/2011		Easting: 271372.00	
Project No: DIME VP			Northing: 196016.00			
Trial Pit Length:			Trial Pit Width:		Excavation Method:	
Logged By: Alex Mann			Checked By:		Plant: Volvo 210	
					Shoring/Support: None	
Samples & Tests			Strata Details			
Depth (m)	Type	PID (ppm)	Thk	Legend	Depth	Description
0.20	ES		1.20		1.20	MADE GROUND. Brown gravelly SAND. Coarse gravel of brick, sandstone and concrete. (0,0)
0.80	ES					
1.40	ES		1.30		2.50	Orange brown gravelly clayey SAND. Coarse gravel of sandstone
2.00	ES					
						End of Trial Pit at 2.50 m
General Notes: 1. All linear dimensions are in metres unless otherwise stated 2. All relative density/shear strength descriptions are based only on field observations and available in-situ test data.						
Groundwater Observations: Water seepage at 1.2m			Stability: Trial pit stable		General Remarks: Pit terminated in natural soils.	

DMT1



DMT2



DMT3



DMT4



DMT5





Localised free product





Appendix H. Laboratory Analysis (2011 GI)



Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
Coed Darcy
Llandarcy
SA10 6HJ

Attention: Alex Mann

CERTIFICATE OF ANALYSIS

Date: 01 June 2011
Customer: H_ATKINS_LDC
Sample Delivery Group (SDG): 110523-21
Your Reference: DiMe Trial Pit Validation
Location: Coed Darcy Urban Village
Report No: 131655

We received 64 samples on Saturday May 21, 2011 and 50 of these samples were scheduled for analysis which was completed on Wednesday June 01, 2011. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Asbestos testing - we are not accredited for screening soil samples for asbestos fibres. We are only accredited to identify asbestos fibres in bulk material (ACM).

Approved By:

Sonia McWhan

Operations Manager





SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
3514312	DVP58		0.80	
3514315	DVP58		1.60	
3514316	DVP58		2.50	
3514317	DVP58		2.90	
3514318	DVP59		0.50	
3514319	DVP59		1.20	
3514320	DVP59		1.80	
3514321	DVP59		2.50	
3514322	DVP60		0.30	
3514323	DVP60		0.80	
3514325	DVP60		2.10	
3514329	DVP60		3.10	
3514333	DVP61		0.20	
3514335	DVP61		0.80	
3514336	DVP61		1.50	
3514338	DVP61		2.50	
3514339	DVP62		0.20	
3514340	DVP62		1.00	
3514342	DVP62		1.50	
3514343	DVP62		2.50	
3514344	DVP63		0.20	
3514345	DVP63		0.80	
3514346	DVP63		1.30	
3514347	DVP63		1.80	
3514348	DVP64		0.50	
3514349	DVP64		1.30	
3514351	DVP64		2.50	
3514352	DVP64		3.50	
3514353	DVP65		0.20	
3514354	DVP65		0.80	
3514355	DVP65		1.30	
3514356	DVP65		2.50	
3514357	DVP66		0.40	
3514358	DVP66		0.70	
3514359	DVP66		1.20	
3514360	DVP66		1.20	
3514361	DVP67		0.50	
3514362	DVP67		1.20	
3514363	DVP67		1.70	
3514366	DVP67		1.70	
3514364	DVP67		2.10	
3514367	DVP68		0.50	
3514368	DVP68		1.20	
3514370	DVP68		1.50	
3514372	DVP68		2.00	
3514374	DVP69		0.50	
3514375	DVP69		1.00	
3514377	DVP69		1.50	
3514379	DVP69		2.50	
3514380	DVP70		0.20	
3514382	DVP70		0.80	
3514383	DVP71		0.40	
3514385	DVP71		1.00	
3514386	DVP71		1.60	
3514388	DVP72		0.50	
3514389	DVP72		1.00	



CERTIFICATE OF ANALYSIS

SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
3514390	DVP73		0.50	
3514391	DVP73		1.00	
3514393	DVP73		1.80	
3514394	DVP73		2.80	
3514395	DVP74		0.20	
3514396	DVP74		0.80	
3514397	DVP74		1.40	
3514398	DVP74		2.00	

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

LEACH

Results Legend



Test

No Determination
Possible

Lab Sample No(s)

3514347
3514360Customer
Sample ReferenceDVP63
DVP66

AGS Reference

Depth (m)

1.80
1.20

Container

1l green glass bottle
Vial
Vial

EPH CWG (Aliphatic) Aqueous GC (W)	All	NDPs: 0 Tests: 3	X	X		
EPH CWG (Aromatic) Aqueous GC (W)	All	NDPs: 0 Tests: 2	X			
GRO by GC-FID (W)	All	NDPs: 0 Tests: 3		X	X	
SVOC MS (W) - Aqueous	All	NDPs: 0 Tests: 3	X	X		
TPH CWG (W)	All	NDPs: 0 Tests: 3	X	X		
VOC MS (W)	All	NDPs: 0 Tests: 3		X	X	



SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

LEACH
Results Legend

- X

 Test
- N

 No Determination Possible

Lab Sample No(s)

3514366

Customer
Sample Reference

DV/P67

AGS Reference

Depth (m)

1.70

Container

1l green glass bottle
Vial

EPH CWG (Aliphatic) Aqueous GC (W)	All	NDPs: 0 Tests: 3	X	
EPH CWG (Aromatic) Aqueous GC (W)	All	NDPs: 0 Tests: 2	X	
GRO by GC-FID (W)	All	NDPs: 0 Tests: 3		X
SVOC MS (W) - Aqueous	All	NDPs: 0 Tests: 3	X	
TPH CWG (W)	All	NDPs: 0 Tests: 3	X	
VOC MS (W)	All	NDPs: 0 Tests: 3		X



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	3514340		DV/P62				1.00		250g Amber Jar	
	3514339		DV/P62				0.20		60g VOC	
	3514338		DV/P61				2.50		250g Amber Jar	
	3514336		DV/P61				1.50		400g Tub	
	3514335		DV/P61				0.80		250g Amber Jar	
	3514333		DV/P61				0.20		400g Tub	
	3514329		DV/P60				3.10		250g Amber Jar	
	3514325		DV/P60				2.10		400g Tub	
	3514322		DV/P60				0.30		250g Amber Jar	
	3514321		DV/P59				2.50		250g Amber Jar	
	3514319		DV/P59				1.20		60g VOC	
	3514318		DV/P59				0.50		250g Amber Jar	
	3514317		DV/P58				2.90		400g Tub	
	3514315		DV/P58				1.60		250g Amber Jar	
	3514312		DV/P58				0.80		60g VOC	
									400g Tub	
									250g Amber Jar	
Asbestos Containing Material Screen	All	NDPs: 0 Tests: 14								
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 47								
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 47								
GRO by GC-FID (S)	All	NDPs: 0 Tests: 47								
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 38								
	Cadmium	NDPs: 0 Tests: 38								
	Chromium	NDPs: 0 Tests: 38								
	Copper	NDPs: 0 Tests: 38								
	Lead	NDPs: 0 Tests: 38								
	Mercury	NDPs: 0 Tests: 38								
	Nickel	NDPs: 0 Tests: 38								
	Selenium	NDPs: 0 Tests: 38								
	Vanadium	NDPs: 0 Tests: 38								
	Zinc	NDPs: 0 Tests: 38								
PAH by GCMS	All	NDPs: 0 Tests: 18								



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

SOLID			Results Legend									
			X Test N No Determination Possible									
Lab Sample No(s)			Customer Sample Reference									
AGS Reference												
Depth (m)												
Container												
			3514340	DV/P62	1.00	250g Amber Jar						
			3514339	DV/P62	0.20	60g VOC						
			3514338	DV/P61	2.50	250g Amber Jar						
						400g Tub						
			3514336	DV/P61	1.50	250g Amber Jar						
						60g VOC						
			3514335	DV/P61	0.80	400g Tub						
						250g Amber Jar						
			3514333	DV/P61	0.20	60g VOC						
						400g Tub						
			3514329	DV/P60	3.10	250g Amber Jar						
						60g VOC						
			3514325	DV/P60	2.10	400g Tub						
						250g Amber Jar						
			3514322	DV/P60	0.30	60g VOC						
						400g Tub						
			3514321	DV/P59	2.50	250g Amber Jar						
						60g VOC						
			3514319	DV/P59	1.20	250g Amber Jar						
						60g VOC						
			3514318	DV/P59	0.50	400g Tub						
						250g Amber Jar						
			3514317	DV/P58	2.90	60g VOC						
						400g Tub						
			3514315	DV/P58	1.60	250g Amber Jar						
						60g VOC						
			3514312	DV/P58	0.80	250g Amber Jar						
						400g Tub						
pH	All	NDPs: 0 Tests: 28										
Sample description	All	NDPs: 0 Tests: 47										
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 28										
Total Organic Carbon	All	NDPs: 0 Tests: 7										
TPH CWG GC (S)	All	NDPs: 0 Tests: 47										
VOC MS (S)	All	NDPs: 0 Tests: 29										



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	3514340		DV/P62				1.00		250g Amber Jar 60g VOC	
	3514343		DV/P62				2.50		250g Amber Jar 60g VOC	
	3514345		DV/P63				0.80		400g Tub 60g VOC	
	3514348		DV/P64				0.50		250g Amber Jar 60g VOC	
Asbestos Containing Material Screen									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
EPH CWG (Aliphatic) GC (S)									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
EPH CWG (Aromatic) GC (S)									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
GRO by GC-FID (S)									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
									400g Tub 250g Amber Jar 60g VOC	
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 38							400g Tub 250g Amber Jar 60g VOC	
	Cadmium	NDPs: 0 Tests: 38							400g Tub 250g Amber Jar 60g VOC	
	Chromium	NDPs: 0 Tests: 38							400g Tub 250g Amber Jar 60g VOC	
	Copper	NDPs: 0 Tests: 38							400g Tub 250g Amber Jar 60g VOC	
	Lead	NDPs: 0 Tests: 38							400g Tub 250g Amber Jar 60g VOC	
	Mercury	NDPs: 0 Tests: 38							400g Tub 250g Amber Jar 60g VOC	
	Nickel	NDPs: 0 Tests: 38							400g Tub 250g Amber Jar 60g VOC	
	Selenium	NDPs: 0 Tests: 38							400g Tub 250g Amber Jar 60g VOC	
	Thallium	NDPs: 0 Tests: 2							400g Tub 250g Amber Jar 60g VOC	
	Vanadium	NDPs: 0 Tests: 38							400g Tub 250g Amber Jar 60g VOC	
	Zinc	NDPs: 0 Tests: 38							400g Tub 250g Amber Jar 60g VOC	



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

SOLID**Results Legend**

Test



No Determination Possible

Lab Sample No(s)**Customer Sample Reference****AGS Reference****Depth (m)****Container**

			3514340		DV/P62		1.00	400g Tub 250g Amber Jar 60g VOC
			3514343		DV/P62		2.50	250g Amber Jar 400g Tub 60g VOC
			3514345		DV/P63		0.80	250g Amber Jar 60g VOC
			3514348		DV/P64		0.50	250g Amber Jar 60g VOC 400g Tub
			3514349		DV/P64		1.30	250g Amber Jar 60g VOC 400g Tub
			3514352		DV/P64		3.50	250g Amber Jar 60g VOC
			3514353		DV/P65		0.20	250g Amber Jar 60g VOC 400g Tub
			3514355		DV/P65		1.30	250g Amber Jar 60g VOC 400g Tub
			3514356		DV/P65		2.50	250g Amber Jar 60g VOC 400g Tub
			3514357		DV/P66		0.40	250g Amber Jar 60g VOC
			3514358		DV/P66		0.70	250g Amber Jar 60g VOC 400g Tub
			3514359		DV/P66		1.20	250g Amber Jar 60g VOC 400g Tub
			3514361		DV/P67		0.50	250g Amber Jar 60g VOC 400g Tub
			3514362		DV/P67		1.20	400g Tub 250g Amber Jar 60g VOC
PAH by GCMS	All	NDPs: 0 Tests: 18						
pH	All	NDPs: 0 Tests: 28						
Sample description	All	NDPs: 0 Tests: 47						
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 28						
Total Organic Carbon	All	NDPs: 0 Tests: 7						
TPH CWG GC (S)	All	NDPs: 0 Tests: 47						
VOC MS (S)	All	NDPs: 0 Tests: 29						



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	3514362		DVP67				1.20		250g Amber Jar 60g VOC	
	3514363		DVP67				1.70		250g Amber Jar 60g VOC	
	3514364		DVP67				2.10		400g Tub 60g VOC	
	3514367		DVP68				0.50		250g Amber Jar 60g VOC	
	3514368		DVP68				1.20		250g Amber Jar 60g VOC	
	3514370		DVP68				1.50		400g Tub 60g VOC	
	3514372		DVP68				2.00		250g Amber Jar 60g VOC	
	3514374		DVP69				0.50		250g Amber Jar 60g VOC	
	3514377		DVP69				1.50		250g Amber Jar 60g VOC	
	3514379		DVP69				2.50		250g Amber Jar 60g VOC	
	3514382		DVP70				0.80		250g Amber Jar 60g VOC	
	3514383		DVP71				0.40		400g Tub 60g VOC	
	3514385		DVP71				1.00		250g Amber Jar 60g VOC	
	3514386		DVP71				1.60		250g Amber Jar 60g VOC	
	3514388		DVP72				0.50		250g Amber Jar 60g VOC	
Asbestos Containing Material Screen	All	NDPs: 0 Tests: 14								
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 47								
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 47								
GRO by GC-FID (S)	All	NDPs: 0 Tests: 47								
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 38								
	Cadmium	NDPs: 0 Tests: 38								
	Chromium	NDPs: 0 Tests: 38								
	Copper	NDPs: 0 Tests: 38								
	Lead	NDPs: 0 Tests: 38								
	Mercury	NDPs: 0 Tests: 38								
	Nickel	NDPs: 0 Tests: 38								
	Selenium	NDPs: 0 Tests: 38								
	Vanadium	NDPs: 0 Tests: 38								
	Zinc	NDPs: 0 Tests: 38								
PAH by GCMS	All	NDPs: 0 Tests: 18								



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

SOLID			Results Legend											
			X Test			N No Determination Possible								
Lab Sample No(s)			Customer Sample Reference			AGS Reference			Depth (m)			Container		
3514362			DVP67						1.20			250g Amber Jar 60g VOC		
3514363			DVP67						1.70			250g Amber Jar 60g VOC		
3514364			DVP67						2.10			250g Amber Jar 60g VOC		
3514367			DVP68						0.50			250g Amber Jar 60g VOC		
3514368			DVP68						1.20			250g Amber Jar 60g VOC		
3514370			DVP68						1.50			250g Amber Jar 60g VOC		
3514372			DVP68						2.00			250g Amber Jar 60g VOC		
3514374			DVP69						0.50			250g Amber Jar 60g VOC		
3514377			DVP69						1.50			250g Amber Jar 60g VOC		
3514379			DVP69						2.50			250g Amber Jar 60g VOC		
3514382			DVP70						0.80			250g Amber Jar 60g VOC		
3514383			DVP71						0.40			250g Amber Jar 60g VOC		
3514385			DVP71						1.00			250g Amber Jar 60g VOC		
3514388			DVP72						0.50			250g Amber Jar 60g VOC		



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

SOLID**Results Legend**

Test



No Determination Possible

Lab Sample No(s)**Customer Sample Reference****AGS Reference****Depth (m)****Container**

3514389	3514390	3514393	3514395	3514397
DVP72	DVP73	DVP73	DVP74	DVP74
1.00	0.50	1.80	0.20	1.40
250g Amber Jar 60g VOC	250g Amber Jar 60g VOC	250g Amber Jar 60g VOC	250g Amber Jar 60g VOC 400g Tub	60g VOC 250g Amber Jar

Asbestos Containing Material Screen

All

NDPs: 0
Tests: 14

		X	X	

EPH CWG (Aliphatic) GC (S)

All

NDPs: 0
Tests: 47

X	X	X	X	X
---	---	---	---	---

EPH CWG (Aromatic) GC (S)

All

NDPs: 0
Tests: 47

X	X	X	X	X
---	---	---	---	---

GRO by GC-FID (S)

All

NDPs: 0
Tests: 47

	X	X	X	X	X
--	---	---	---	---	---

Metals by iCap-OES (Soil)

Arsenic

NDPs: 0
Tests: 38

X	X	X	X	X
---	---	---	---	---

Cadmium

NDPs: 0
Tests: 38

X	X	X	X	X
---	---	---	---	---

Chromium

NDPs: 0
Tests: 38

X	X	X	X	X
---	---	---	---	---

Copper

NDPs: 0
Tests: 38

X	X	X	X	X
---	---	---	---	---

Lead

NDPs: 0
Tests: 38

X	X	X	X	X
---	---	---	---	---

Mercury

NDPs: 0
Tests: 38

X	X	X	X	X
---	---	---	---	---

Nickel

NDPs: 0
Tests: 38

X	X	X	X	X
---	---	---	---	---

Selenium

NDPs: 0
Tests: 38

X	X	X	X	X
---	---	---	---	---

Thallium

NDPs: 0
Tests: 2

X				
---	--	--	--	--

Vanadium

NDPs: 0
Tests: 38

X	X	X	X	X
---	---	---	---	---

Zinc

NDPs: 0
Tests: 38

X	X	X	X	X
---	---	---	---	---



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

SOLID**Results Legend**

Test

No Determination
Possible**Lab Sample No(s)****Customer
Sample Reference****AGS Reference****Depth (m)****Container**

3514389	3514390	3514393	3514395	3514397
DVP72	DVP73	DVP73	DVP74	DVP74
1.00	0.50	1.80	0.20	1.40
250g Amber Jar 60g VOC	250g Amber Jar 60g VOC	250g Amber Jar 60g VOC	250g Amber Jar 400g Tub 60g VOC	60g VOC 250g Amber Jar
NDPs: 0 Tests: 18	NDPs: 0 Tests: 18	NDPs: 0 Tests: 18	NDPs: 0 Tests: 18	NDPs: 0 Tests: 18
X	X	X		X
			X	
NDPs: 0 Tests: 47	NDPs: 0 Tests: 47	NDPs: 0 Tests: 47	NDPs: 0 Tests: 47	NDPs: 0 Tests: 47
X	X	X	X	X
NDPs: 0 Tests: 28	NDPs: 0 Tests: 28	NDPs: 0 Tests: 28	NDPs: 0 Tests: 28	NDPs: 0 Tests: 28
		X		
NDPs: 0 Tests: 47	NDPs: 0 Tests: 47	NDPs: 0 Tests: 47	NDPs: 0 Tests: 47	NDPs: 0 Tests: 47
X	X	X	X	X
NDPs: 0 Tests: 29	NDPs: 0 Tests: 29	NDPs: 0 Tests: 29	NDPs: 0 Tests: 29	NDPs: 0 Tests: 29
			X	

PAH by GCMS	All
pH	All
Sample description	All
Semi Volatile Organic Compounds	All
TPH CWG GC (S)	All
VOC MS (S)	All



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

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Report Number: 131655
Superseded Report:

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm
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Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
3514312	DVP58	0.80	Dark Brown	Sand	0.1 - 2 mm	Stones	N/A
3514315	DVP58	1.60	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	N/A
3514317	DVP58	2.90	Dark Brown	Sand	0.1 - 2 mm	Stones	N/A
3514318	DVP59	0.50	Dark Brown	Sand	0.1 - 2 mm	Stones	Brick
3514319	DVP59	1.20	Dark Brown	Sand	0.1 - 2 mm	Stones	N/A
3514321	DVP59	2.50	Dark Brown	Sand	0.1 - 2 mm	Stones	N/A
3514322	DVP60	0.30	Dark Brown	Sand	0.1 - 2 mm	Stones	N/A
3514325	DVP60	2.10	Dark Brown	Sand	0.1 - 2 mm	Stones	N/A
3514329	DVP60	3.10	Dark Brown	Silty Sand	0.1 - 2 mm	Stones	N/A
3514333	DVP61	0.20	Dark Brown	Sand	0.1 - 2 mm	Stones	N/A
3514335	DVP61	0.80	Dark Brown	Sand	0.1 - 2 mm	Stones	N/A
3514336	DVP61	1.50	Dark Brown	Sand	0.1 - 2 mm	Stones	N/A
3514338	DVP61	2.50	Dark Brown	Sand	0.1 - 2 mm	Stones	N/A
3514339	DVP62	0.20	Dark Brown	Sand	0.1 - 2 mm	Stones	N/A
3514340	DVP62	1.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
3514343	DVP62	2.50	Dark Brown	Silty Sand	0.063 - 0.1 mm	Stones	N/A
3514345	DVP63	0.80	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	N/A
3514348	DVP64	0.50	Dark Brown	Silty Sand	0.063 - 0.1 mm	Stones	N/A
3514349	DVP64	1.30	Grey	Sandy Loam	0.063 - 0.1 mm	N/A	Stones
3514352	DVP64	3.50	Dark Brown	Silty Clay	0.063 - 0.1 mm	N/A	Stones
3514353	DVP65	0.20	Dark Brown	Sandy Silt Loam	0.063 - 0.1 mm	Stones	N/A
3514355	DVP65	1.30	Dark Brown	Sandy Silt Loam	0.063 - 0.1 mm	N/A	Stones
3514356	DVP65	2.50	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	N/A	Stones
3514357	DVP66	0.40	Dark Brown	Sandy Silt Loam	0.063 - 0.1 mm	N/A	Stones
3514358	DVP66	0.70	Grey	Sand	0.063 - 0.1 mm	Stones	N/A
3514359	DVP66	1.20	Grey	Silt	0.063 - 0.1 mm	N/A	Stones
3514361	DVP67	0.50	Light Brown	Top Soil	0.063 - 0.1 mm	Stones	Crushed Brick
3514362	DVP67	1.20	Grey	Silty Sand	0.063 - 0.1 mm	Stones	N/A
3514363	DVP67	1.70	Grey	Gravel	2 - 10 mm	Stones	Oil/Petroleum
3514364	DVP67	2.10	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	N/A
3514367	DVP68	0.50	Dark Brown	Top Soil	0.1 - 2 mm	Stones	Oil/Petroleum
3514368	DVP68	1.20	Dark Brown	Sandy Loam	0.063 - 0.1 mm	Stones	N/A
3514370	DVP68	1.50	Grey	Silty Sand	0.063 - 0.1 mm	Stones	N/A
3514372	DVP68	2.00	Dark Brown	Sandy Silt Loam	0.063 - 0.1 mm	Stones	N/A
3514374	DVP69	0.50	Light Brown	Top Soil	0.1 - 2 mm	Stones	Oil/Petroleum
3514377	DVP69	1.50	Dark Brown	Silty Sand	0.063 - 0.1 mm	Stones	N/A
3514379	DVP69	2.50	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	N/A
3514382	DVP70	0.80	Dark Brown	Sand	0.1 - 2 mm	Stones	None



CERTIFICATE OF ANALYSIS

SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

			Colour	Description	Grain size	Inclusions	Inclusions 2
3514383	DVP71	0.40	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
3514385	DVP71	1.00	Dark Brown	Silt Loam	0.063 - 0.1 mm	Stones	None
3514386	DVP71	1.60	Grey	Silty Sand	0.063 - 0.1 mm	Stones	Stones
3514388	DVP72	0.50	Dark Brown	Sandy Silt Loam	0.063 - 0.1 mm	Stones	N/A
3514389	DVP72	1.00	Grey	Silty Clay	0.063 - 0.1 mm	Stones	N/A
3514390	DVP73	0.50	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	N/A	Stones
3514393	DVP73	1.80	Dark Brown	Sandy Clay Loam	0.063 - 0.1 mm	Crushed Brick	N/A
3514395	DVP74	0.20	Dark Brown	Sandy Silt Loam	0.063 - 0.1 mm	Stones	N/A
3514397	DVP74	1.40	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	N/A

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

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PAH by GCMS

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CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Semi Volatile Organic Compounds

Results Legend		Customer Sample R	DVP58	DVP59	DVP59	DVP60	DVP60	DVP61
#	ISO17025 accredited.							
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.80 Soil/Solid - 21/05/2011 110523-21 3514312	1.20 Soil/Solid - 21/05/2011 110523-21 3514319	2.50 Soil/Solid - 21/05/2011 110523-21 3514321	0.30 Soil/Solid - 21/05/2011 110523-21 3514322	2.10 Soil/Solid - 21/05/2011 110523-21 3514325	0.20 Soil/Solid - 21/05/2011 110523-21 3514333
S	Non-conforming work.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
Component	LOD/Units	Method						
Phenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157	<100	<100	<100	<100	210	<100
Carbazole	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157	437	<100	<100	159	<100	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2-Chlorophenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157	<100	269	<100	139	542	<100

Semi Volatile Organic Compounds

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SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
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Semi Volatile Organic Compounds

Results Legend		Customer Sample R Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	DVP61	DVP62	DVP62	DVP63	DVP64	DVP64
#	ISO17025 accredited.		1.50	0.20	1.00	0.80	0.50	1.30
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
S	Non-conforming work.		-	-	-	-	-	-
aq	Aqueous / settled sample.		21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011
diss.filt	Dissolved / filtered sample.		110523-21	110523-21	110523-21	110523-21	110523-21	110523-21
tot.unfilt	Total / unfiltered sample.		3514336	3514339	3514340	3514345	3514348	3514349
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
Component	LOD/Units	Method						
Phenol	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157	<100	<500	<100	233	254	<100
Carbazole	<100 µg/kg	TM157	<100	<500	<100	<100	146	<100
Butylbenzyl phthalate	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157	<100	1180	<100	436	<100	265
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
2-Chlorophenol	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157	<100	<500	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157	<100	<500	<100	353	<100	300

CERTIFICATE OF ANALYSIS

SDG:	110523-21
Job:	H_ATKINS_LDC-96
Client Reference:	DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Semi Volatile Organic Compounds

[illegible]



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
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Semi Volatile Organic Compounds

Results Legend		Customer Sample R	DVP65	DVP65	DVP66	DVP66	DVP67	DVP67
#	ISO17025 accredited.							
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.20 Soil/Solid - 21/05/2011 110523-21 3514353	1.30 Soil/Solid - 21/05/2011 110523-21 3514355	0.70 Soil/Solid - 21/05/2011 110523-21 3514358	1.20 Soil/Solid - 21/05/2011 110523-21 3514359	0.50 Soil/Solid - 21/05/2011 110523-21 3514361	1.20 Soil/Solid - 21/05/2011 110523-21 3514362
S	Non-conforming work.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
Component	LOD/Units	Method						
Phenol	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
Pentachlorophenol	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
Nitrobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
Isophorone	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
Hexachloroethane	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
Hexachlorobutadiene	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
Hexachlorobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
n-Dioctyl phthalate	<100 µg/kg	TM157	<100	946	<100	<100	<200	<100
Dimethyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
Diethyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
n-Dibutyl phthalate	<100 µg/kg	TM157	137	<100	<100	<100	<200	<100
Dibenzofuran	<100 µg/kg	TM157	182	293	<100	<100	<200	<100
Carbazole	<100 µg/kg	TM157	333	242	<100	<100	<200	<100
Butylbenzyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157	2630	7250	<100	<100	1630	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
Azobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
4-Nitrophenol	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
4-Nitroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
4-Methylphenol	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
4-Chloroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
4-Bromophenylphenylether	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
3-Nitroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
2-Nitrophenol	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
2-Nitroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
2-Methylphenol	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
2-Chlorophenol	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157	<100	<100	<100	<100	<200	<100

Order Number: CD0127
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Superseded Report:

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CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Semi Volatile Organic Compounds

Results Legend		Customer Sample R	DVP67	DVP67	DVP68	DVP68	DVP68	DVP68
#	ISO17025 accredited.							
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	1.70 Soil/Solid - 21/05/2011 110523-21 3514363	2.10 Soil/Solid - 21/05/2011 110523-21 3514364	0.50 Soil/Solid - 21/05/2011 110523-21 3514367	1.20 Soil/Solid - 21/05/2011 110523-21 3514368	1.50 Soil/Solid - 21/05/2011 110523-21 3514370	2.00 Soil/Solid - 21/05/2011 110523-21 3514372
S	Non-conforming work.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
Component	LOD/Units	Method						
Phenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Carbazole	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157	<100	<100	<100	215	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157	<100	<100	286	<100	<100	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2-Chlorophenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157	<100	<100	302	<100	<100	<100

Order Number: CD0127
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Superseded Report:

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CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Semi Volatile Organic Compounds

Results Legend		Customer Sample R	DVP69	DVP70	DVP71	DVP74		
#	ISO17025 accredited.							
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	1.50 Soil/Solid - 21/05/2011 110523-21 3514377	0.80 Soil/Solid - 21/05/2011 110523-21 3514382	0.40 Soil/Solid - 21/05/2011 110523-21 3514383	0.20 Soil/Solid - 21/05/2011 110523-21 3514395		
S	Non-conforming work.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
Component		LOD/Units	Method					
Phenol		<100 µg/kg	TM157	<100	<500	<100	<100	
Pentachlorophenol		<100 µg/kg	TM157	<100	<500	<100	<100	
n-Nitroso-n-dipropylamine		<100 µg/kg	TM157	<100	<500	<100	<100	
Nitrobenzene		<100 µg/kg	TM157	<100	<500	<100	<100	
Isophorone		<100 µg/kg	TM157	<100	<500	<100	<100	
Hexachloroethane		<100 µg/kg	TM157	<100	<500	<100	<100	
Hexachlorocyclopentadiene		<100 µg/kg	TM157	<100	<500	<100	<100	
Hexachlorobutadiene		<100 µg/kg	TM157	<100	<500	<100	<100	
Hexachlorobenzene		<100 µg/kg	TM157	<100	<500	<100	<100	
n-Dioctyl phthalate		<100 µg/kg	TM157	<100	<500	<100	<100	
Dimethyl phthalate		<100 µg/kg	TM157	<100	<500	<100	<100	
Diethyl phthalate		<100 µg/kg	TM157	<100	<500	<100	<100	
n-Dibutyl phthalate		<100 µg/kg	TM157	<100	<500	<100	<100	
Dibenzofuran		<100 µg/kg	TM157	<100	<500	<100	<100	
Carbazole		<100 µg/kg	TM157	<100	<500	<100	<100	
Butylbenzyl phthalate		<100 µg/kg	TM157	<100	<500	<100	<100	
bis(2-Ethylhexyl) phthalate		<100 µg/kg	TM157	<100	2780	146	290	
bis(2-Chloroethoxy)methane		<100 µg/kg	TM157	<100	<500	<100	<100	
bis(2-Chloroethyl)ether		<100 µg/kg	TM157	<100	<500	<100	<100	
Azobenzene		<100 µg/kg	TM157	<100	<500	<100	<100	
4-Nitrophenol		<100 µg/kg	TM157	<100	<500	<100	<100	
4-Nitroaniline		<100 µg/kg	TM157	<100	<500	<100	<100	
4-Methylphenol		<100 µg/kg	TM157	<100	<500	<100	<100	
4-Chlorophenylphenylether		<100 µg/kg	TM157	<100	<500	<100	<100	
4-Chloroaniline		<100 µg/kg	TM157	<100	<500	<100	<100	
4-Chloro-3-methylphenol		<100 µg/kg	TM157	<100	<500	<100	<100	
4-Bromophenylphenylether		<100 µg/kg	TM157	<100	<500	<100	<100	
3-Nitroaniline		<100 µg/kg	TM157	<100	<500	<100	<100	
2-Nitrophenol		<100 µg/kg	TM157	<100	<500	<100	<100	
2-Nitroaniline		<100 µg/kg	TM157	<100	<500	<100	<100	
2-Methylphenol		<100 µg/kg	TM157	<100	<500	<100	<100	
1,2,4-Trichlorobenzene		<100 µg/kg	TM157	<100	<500	<100	<100	
2-Chlorophenol		<100 µg/kg	TM157	<100	<500	<100	<100	
2,6-Dinitrotoluene		<100 µg/kg	TM157	<100	<500	<100	<100	
2,4-Dinitrotoluene		<100 µg/kg	TM157	<100	<500	<100	<100	

Order Number: CD0127
Report Number: 131655
Superseded Report:

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CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

SVOC MS (W) - Aqueous

Results Legend			Customer Sample R	DVP63	DVP66	DVP67					
#	ISO17025 accredited.										
M	mCERTS accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	1.80 Saline A - 21/05/2011 110523-21 3514347	1.20 Saline A - 21/05/2011 110523-21 3514360	1.70 Saline A - 21/05/2011 110523-21 3514366					
S	Non-conforming work.										
aq	Aqueous / settled sample.										
diss.filt	Dissolved / filtered sample.										
tot.unfilt	Total / unfiltered sample.										
*	Subcontracted test.										
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery										
(F)	Trigger breach confirmed										
Component										LOD/Units	Method
1,2,4-Trichlorobenzene (aq)										<1 µg/l	TM176
1,2-Dichlorobenzene (aq)			<1 µg/l	TM176	<10	<1	<1				
1,3-Dichlorobenzene (aq)			<1 µg/l	TM176	<10	<1	<1				
1,4-Dichlorobenzene (aq)			<1 µg/l	TM176	<10	<1	<1				
2,4,5-Trichlorophenol (aq)			<1 µg/l	TM176	<10	<1	<1				
2,4,6-Trichlorophenol (aq)			<1 µg/l	TM176	<10	<1	<1				
2,4-Dichlorophenol (aq)			<1 µg/l	TM176	<10	<1	<1				
2,4-Dimethylphenol (aq)			<1 µg/l	TM176	<10	1.33	<1				
2,4-Dinitrotoluene (aq)			<1 µg/l	TM176	<10	<1	<1				
2,6-Dinitrotoluene (aq)			<1 µg/l	TM176	<10	<1	<1				
2-Chloronaphthalene (aq)			<1 µg/l	TM176	<10	<1	<1				
2-Chlorophenol (aq)			<1 µg/l	TM176	<10	<1	<1				
2-Methylnaphthalene (aq)			<1 µg/l	TM176	2180	2.32	11.2				
2-Methylphenol (aq)			<1 µg/l	TM176	<10	<1	<1				
2-Nitroaniline (aq)			<1 µg/l	TM176	<10	<1	<1				
2-Nitrophenol (aq)			<1 µg/l	TM176	<10	<1	<1				
3-Nitroaniline (aq)			<1 µg/l	TM176	<10	<1	<1				
4-Bromophenylphenylether (aq)			<1 µg/l	TM176	<10	<1	<1				
4-Chloro-3-methylphenol (aq)			<1 µg/l	TM176	<10	<1	<1				
4-Chloroaniline (aq)			<1 µg/l	TM176	<10	<1	<1				
4-Chlorophenylphenylether (aq)			<1 µg/l	TM176	<10	<1	<1				
4-Methylphenol (aq)			<1 µg/l	TM176	<10	1.6	2				
4-Nitrophenol (aq)			<1 µg/l	TM176	<10	<1	<1				
4-Nitroaniline (aq)			<1 µg/l	TM176	<10	<1	<1				
Azobenzene (aq)			<1 µg/l	TM176	<10	<1	<1				
Acenaphthylene (aq)			<1 µg/l	TM176	<10	<1	<1				
Acenaphthene (aq)			<1 µg/l	TM176	<10	<1	<1				
Anthracene (aq)			<1 µg/l	TM176	11.1	<1	<1				
bis(2-Chloroethyl)ether (aq)			<1 µg/l	TM176	<10	<1	<1				
bis(2-Chloroethoxy)methan e (aq)			<1 µg/l	TM176	<10	<1	<1				
bis(2-Ethylhexyl) phthalate (aq)			<2 µg/l	TM176	<20	<2	<2				
Benzo(a)anthracene (aq)			<1 µg/l	TM176	10.5	<1	<1				
Butylbenzyl phthalate (aq)			<1 µg/l	TM176	<10	<1	<1				
Benzo(b)fluoranthene (aq)			<1 µg/l	TM176	10	<1	<1				
Benzo(k)fluoranthene (aq)			<1 µg/l	TM176	<10	<1	<1				

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
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Superseded Report:

[illegible]



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

TPH CWG (S)

Results Legend			Customer Sample R	DVP58	DVP58	DVP58	DVP59	DVP59	DVP59
#	ISO17025 accredited.			0.80	1.60	2.90	0.50	1.20	2.50
M	mCERTS accredited.			Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
S	Non-conforming work.				-	-		-	-
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.			21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011
tot.unfilt	Total / unfiltered sample.			110523-21	110523-21	110523-21	110523-21	110523-21	110523-21
*	Subcontracted test.			3514312	3514315	3514317	3514318	3514319	3514321
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
Component	LOD/Units	Method							
GRO Surrogate % recovery**	%	TM089	41	61	75	49	120	10	
GRO >C5-C12	<44 µg/kg	TM089	9970	12500	5930	4440	122000	179	
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5	<5	<5	<5	<10	<5	
Benzene	<10 µg/kg	TM089	<10	<10	<10	<10	91.1	<10	
Toluene	<2 µg/kg	TM089	<2	<2	<2	<2	409	4.48	
Ethylbenzene	<3 µg/kg	TM089	<3	<3	<3	<3	<6	<3	
m,p-Xylene	<6 µg/kg	TM089	<6	<6	<6	<6	2460	<6	
o-Xylene	<3 µg/kg	TM089	<3	<3	<3	<3	<6	<3	
m,p,o-Xylene	µg/kg	TM089	<10	<10	<10	<10			
sum of detected mpo xylene by GC	µg/kg	TM089					2460	none detected	
BTEX, Total	µg/kg	TM089	<10	<10	<10	<10			
sum of detected BTEX by GC	µg/kg	TM089					2960	4.48	
Aliphatics >C5-C6	<10 µg/kg	TM089	38.8	148	36	14.8	504	16.8	
Aliphatics >C6-C8	<10 µg/kg	TM089	475	2120	143	431	19900	60.5	
Aliphatics >C8-C10	<10 µg/kg	TM089	2650	3200	1210	1060	31300	31.4	
Aliphatics >C10-C12	<10 µg/kg	TM089	3020	2950	2240	1330	27800	22.4	
Aliphatics >C12-C16	<100 µg/kg	TM173	69300	76000	4790	42200	137000	5980	
Aliphatics >C16-C21	<100 µg/kg	TM173	152000	146000	4210	119000	273000	2590	
Aliphatics >C21-C35	<100 µg/kg	TM173	2080000	383000	14000	807000	520000	11100	
Aliphatics >C35-C44	<100 µg/kg	TM173	458000	66400	1720	325000	52800	2190	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	2750000	671000	24700	1290000	983000	21800	
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	91.1	<10	
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	409	<10	
Aromatics >EC8-EC10	<10 µg/kg	TM089	1770	2130	808	707	23300	25.8	
Aromatics >EC10-EC12	<10 µg/kg	TM089	2010	1960	1490	888	18600	14.6	
Aromatics >EC12-EC16	<100 µg/kg	TM173	36700	36600	5890	20300	71000	6970	
Aromatics >EC16-EC21	<100 µg/kg	TM173	75800	77900	7090	68600	119000	6690	
Aromatics >EC21-EC35	<100 µg/kg	TM173	854000	208000	14500	452000	228000	15000	
Aromatics >EC35-EC44	<100 µg/kg	TM173	251000	60000	2860	291000	22400	3460	
Aromatics >EC40-EC44	<100 µg/kg	TM173	99600	23300	875	127000	8060	1100	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	1220000	382000	30300	832000	440000	32100	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	3980000	1070000	60900	2130000	1550000	54200	
Total Aliphatics >C5-35	<100 µg/kg	TM173	2300000	613000	26600	971000	1010000	19800	
Total Aromatics >C5-35	<100 µg/kg	TM173	971000	326000	29800	542000	460000	28700	
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173	3270000	940000	56400	1510000	1470000	48500	



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

TPH CWG (S)

Results Legend			Customer Sample R		DVP60	DVP60	DVP60	DVP61	DVP61	DVP61
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.30	2.10	3.10	0.20	0.80	1.50
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
S	Non-conforming work.				-	-	-	-	-	-
aq	Aqueous / settled sample.				21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011
diss.filt	Dissolved / filtered sample.				110523-21	110523-21	110523-21	110523-21	110523-21	110523-21
tot.unfilt	Total / unfiltered sample.				3514322	3514325	3514329	3514333	3514335	3514336
*	Subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F)	Trigger breach confirmed									
Component	LOD/Units	Method								
GRO Surrogate % recovery**	%	TM089			81	81	27	76	41	89
GRO >C5-C12	<44 µg/kg	TM089			21800	55900	73.9	14600	25600	58900
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		#	<5	<5	<5	<5	<5	<5
Benzene	<10 µg/kg	TM089		M	<10	24.2	<10	11.6	29	<10
Toluene	<2 µg/kg	TM089		M	<2	<2	3.36	<2	<2	<2
Ethylbenzene	<3 µg/kg	TM089		M	<3	<3	<3	<3	<3	<3
m,p-Xylene	<6 µg/kg	TM089		M	<6	<6	<6	<6	<6	<6
o-Xylene	<3 µg/kg	TM089		M	<3	<3	<3	<3	<3	<3
m,p,o-Xylene	µg/kg	TM089			<10	<10		<10	<10	<10
sum of detected mpo xylene by GC	µg/kg	TM089					none detected			
BTEX, Total	µg/kg	TM089			<10	24.2		11.6	29	<10
sum of detected BTEX by GC	µg/kg	TM089					3.36			
Aliphatics >C5-C6	<10 µg/kg	TM089			38.8	862	12.3	25.5	70.8	34.7
Aliphatics >C6-C8	<10 µg/kg	TM089			472	3470	<10	635	1060	1620
Aliphatics >C8-C10	<10 µg/kg	TM089			4900	16100	16.8	4190	8150	15000
Aliphatics >C10-C12	<10 µg/kg	TM089			7850	14800	11.2	4150	6500	19400
Aliphatics >C12-C16	<100 µg/kg	TM173			59700	179000	40800	115000	187000	185000
Aliphatics >C16-C21	<100 µg/kg	TM173			110000	66500	10400	172000	199000	65100
Aliphatics >C21-C35	<100 µg/kg	TM173			266000	61000	39200	570000	712000	27600
Aliphatics >C35-C44	<100 µg/kg	TM173			74200	10700	9470	170000	378000	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173			510000	317000	99900	1030000	1480000	278000
Aromatics >EC5-EC7	<10 µg/kg	TM089			<10	24.2	<10	11.6	29	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089			<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089			3270	10700	14.6	2790	5430	9980
Aromatics >EC10-EC12	<10 µg/kg	TM089			5230	9890	<10	2770	4330	12900
Aromatics >EC12-EC16	<100 µg/kg	TM173			59100	147000	44000	88500	150000	62500
Aromatics >EC16-EC21	<100 µg/kg	TM173			67600	48700	12200	95900	106000	30200
Aromatics >EC21-EC35	<100 µg/kg	TM173			171000	47900	24100	347000	329000	40200
Aromatics >EC35-EC44	<100 µg/kg	TM173			82300	8700	7880	129000	176000	2580
Aromatics >EC40-EC44	<100 µg/kg	TM173			32300	1890	2830	47500	62200	501
Total Aromatics >EC12-EC44	<100 µg/kg	TM173			379000	253000	88200	661000	761000	135000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173			911000	626000	188000	1700000	2260000	472000
Total Aliphatics >C5-35	<100 µg/kg	TM173			449000	342000	90500	865000	1110000	314000
Total Aromatics >C5-35	<100 µg/kg	TM173			306000	265000	80300	537000	595000	156000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173			755000	606000	171000	1400000	1710000	470000



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	DVP61	DVP62	DVP62	DVP62	DVP63	DVP64
#	ISO17025 accredited.		2.50	0.20	1.00	2.50	0.80	0.50
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
S	Non-conforming work.		-	-	-	-	-	-
aq	Aqueous / settled sample.		21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011
diss.filt	Dissolved / filtered sample.		110523-21	110523-21	110523-21	110523-21	110523-21	110523-21
tot.unfilt	Total / unfiltered sample.		3514338	3514339	3514340	3514343	3514345	3514348
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	78	40	82	17	34	86
GRO >C5-C12	<44 µg/kg	TM089	3530	11100	1780	985	23000	38400
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5 #	<5 #	<5 #	<5 #	<5 #	<5 #
Benzene	<10 µg/kg	TM089	<10 M	<10 M	<10 M	<10 M	<10 M	41.1 M
Toluene	<2 µg/kg	TM089	<2 M	<2 M	<2 M	<2 M	<2 M	<2 M
Ethylbenzene	<3 µg/kg	TM089	<3 M	<3 M	<3 M	8.88 M	<3 M	<3 M
m,p-Xylene	<6 µg/kg	TM089	<6 M	<6 M	<6 M	<6 M	<6 M	<6 M
o-Xylene	<3 µg/kg	TM089	<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
m,p,o-Xylene	µg/kg	TM089	<10	<10	<10	<10	<10	<10
BTEX, Total	µg/kg	TM089	<10	<10	<10	<10	<10	41.1
Aliphatics >C5-C6	<10 µg/kg	TM089	<10	13.6	<10	14.4	10.4	142
Aliphatics >C6-C8	<10 µg/kg	TM089	65.5	667	61.3	81	1570	16200
Aliphatics >C8-C10	<10 µg/kg	TM089	842	2830	289	140	6350	8500
Aliphatics >C10-C12	<10 µg/kg	TM089	1230	3410	741	387	6510	4730
Aliphatics >C12-C16	<100 µg/kg	TM173	5830	552000	13300	17400	219000	550000
Aliphatics >C16-C21	<100 µg/kg	TM173	3670	1990000	56600	61900	292000	1130000
Aliphatics >C21-C35	<100 µg/kg	TM173	10600	2650000	70200	101000	397000	2170000
Aliphatics >C35-C44	<100 µg/kg	TM173	1770	1020000	13700	38500	202000	594000
Total Aliphatics >C12-C44	<100 µg/kg	TM173	21900	6210000	154000	219000	1110000	4440000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<10	<10	41.1
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	562	1890	193	103	4230	5670
Aromatics >EC10-EC12	<10 µg/kg	TM089	819	2270	493	259	4340	3160
Aromatics >EC12-EC16	<100 µg/kg	TM173	6050	523000	7230	13900	174000	176000
Aromatics >EC16-EC21	<100 µg/kg	TM173	2160	2060000	30500	50000	208000	507000
Aromatics >EC21-EC35	<100 µg/kg	TM173	<100	3110000	54400	88200	263000	1310000
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100	1330000	23500	43400	150000	538000
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	558000	9740	18300	55400	227000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	8210	7030000	116000	195000	795000	2540000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	33600	13300000	271000	416000	1930000	7010000
Total Aliphatics >C5-35	<100 µg/kg	TM173	22200	5200000	141000	181000	923000	3870000
Total Aromatics >C5-35	<100 µg/kg	TM173	9590	5700000	92800	152000	653000	2010000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173	31800	10900000	234000	334000	1580000	5880000



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

TPH CWG (S)

Results Legend			Customer Sample R	DVP64	DVP64	DVP65	DVP65	DVP65	DVP66
#	ISO17025 accredited.			1.30	3.50	0.20	1.30	2.50	0.40
M	mCERTS accredited.			Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
S	Non-conforming work.			-	-	-	-	-	-
aq	Aqueous / settled sample.			21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011
diss.filt	Dissolved / filtered sample.			110523-21	110523-21	110523-21	110523-21	110523-21	110523-21
tot.unfilt	Total / unfiltered sample.			3514349	3514352	3514353	3514355	3514356	3514357
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
Component	LOD/Units	Method							
GRO Surrogate % recovery**	%	TM089	58	40	45	39	57	23	
GRO >C5-C12	<44 µg/kg	TM089	22200	3950	11300	34300	22300	1710	
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5 #	<5 #	<5 #	<5 #	<5 #	<5 #	
Benzene	<10 µg/kg	TM089	19.6 M	<10 M	<10 M	<10 M	<10 M	<10 M	
Toluene	<2 µg/kg	TM089	<2 M	<2 M	<2 M	<2 M	<2 M	<2 M	
Ethylbenzene	<3 µg/kg	TM089	<3 M	<3 M	<3 M	101 M	<3 M	<3 M	
m,p-Xylene	<6 µg/kg	TM089	<6 M	<6 M	<6 M	334 M	175 M	<6 M	
o-Xylene	<3 µg/kg	TM089	<3 M	<3 M	<3 M	697 M	369 M	<3 M	
m,p,o-Xylene	µg/kg	TM089	<10	<10	<10		544		
sum of detected mpo xylene by GC	µg/kg	TM089				1030		none detected	
BTEX, Total	µg/kg	TM089	19.6	<10	<10		544		
sum of detected BTEX by GC	µg/kg	TM089				1130		none detected	
Aliphatics >C5-C6	<10 µg/kg	TM089	80.7	32.5	22.4	47.3	51.3	28.5	
Aliphatics >C6-C8	<10 µg/kg	TM089	8150	1320	503	1070	1580	178	
Aliphatics >C8-C10	<10 µg/kg	TM089	5810	609	2060	9080	4860	323	
Aliphatics >C10-C12	<10 µg/kg	TM089	2560	946	4390	10200	7230	576	
Aliphatics >C12-C16	<100 µg/kg	TM173	75900	70200	518000	285000	90000	110000	
Aliphatics >C16-C21	<100 µg/kg	TM173	258000	159000	516000	380000	153000	333000	
Aliphatics >C21-C35	<100 µg/kg	TM173	405000	196000	817000	1420000	538000	13900000	
Aliphatics >C35-C44	<100 µg/kg	TM173	262000	62100	181000	487000	127000	1650000	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	1000000	487000	2030000	2570000	908000	16000000	
Aromatics >EC5-EC7	<10 µg/kg	TM089	19.6	<10	<10	<10	<10	<10	
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10	
Aromatics >EC8-EC10	<10 µg/kg	TM089	3880	405	1370	7190	3780	216	
Aromatics >EC10-EC12	<10 µg/kg	TM089	1710	632	2930	6770	4820	384	
Aromatics >EC12-EC16	<100 µg/kg	TM173	46700	32200	254000	134000	44000	22700	
Aromatics >EC16-EC21	<100 µg/kg	TM173	154000	89800	532000	271000	83000	84600	
Aromatics >EC21-EC35	<100 µg/kg	TM173	508000	168000	958000	1020000	264000	2040000	
Aromatics >EC35-EC44	<100 µg/kg	TM173	294000	59300	273000	215000	62900	410000	
Aromatics >EC40-EC44	<100 µg/kg	TM173	107000	21600	111000	75900	23600	155000	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	1000000	350000	2020000	1640000	454000	2550000	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	2030000	841000	4060000	4250000	1380000	18500000	
Total Aliphatics >C5-35	<100 µg/kg	TM173	755000	428000	1860000	2100000	795000	14300000	
Total Aromatics >C5-35	<100 µg/kg	TM173	714000	291000	1750000	1440000	400000	2140000	
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173	1470000	720000	3610000	3550000	1190000	16500000	



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

TPH CWG (S)

Results Legend			Customer Sample R		DVP66	DVP66	DVP67	DVP67	DVP67	DVP67
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference			0.70	1.20	0.50	1.20	1.70	2.10
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
S	Non-conforming work.				-	-	-	-	-	-
aq	Aqueous / settled sample.				21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011
diss.filt	Dissolved / filtered sample.				110523-21	110523-21	110523-21	110523-21	110523-21	110523-21
tot.unfilt	Total / unfiltered sample.				3514358	3514359	3514361	3514362	3514363	3514364
*	Subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F)	Trigger breach confirmed									
Component	LOD/Units	Method								
GRO Surrogate % recovery**	%	TM089			72	106	25	22	15	43
GRO >C5-C12	<44 µg/kg	TM089			2020	4740	961	1600	1320	8360
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		#	<5	<5	<5	<5	<5	<5
Benzene	<10 µg/kg	TM089		M	<10	<10	<10	<10	<10	<10
Toluene	<2 µg/kg	TM089		M	<2	<2	2.2	<2	31.3	9.16
Ethylbenzene	<3 µg/kg	TM089		M	<3	<3	<3	<3	19.7	<3
m,p-Xylene	<6 µg/kg	TM089		M	<6	<6	6.6	<6	60.3	13.7
o-Xylene	<3 µg/kg	TM089		M	<3	<3	<3	<3	42.9	4.58
m,p,o-Xylene	µg/kg	TM089			<10	<10		<10		18.3
sum of detected mpo xylene by GC	µg/kg	TM089					6.6		103	
BTEX, Total	µg/kg	TM089			<10	<10		<10		27.5
sum of detected BTEX by GC	µg/kg	TM089					8.8		154	
Aliphatics >C5-C6	<10 µg/kg	TM089			27.1	36	41.8	42.6	73.1	760
Aliphatics >C6-C8	<10 µg/kg	TM089			59.9	822	141	292	459	7360
Aliphatics >C8-C10	<10 µg/kg	TM089			267	977	129	287	195	57.3
Aliphatics >C10-C12	<10 µg/kg	TM089			894	1350	333	473	186	73.3
Aliphatics >C12-C16	<100 µg/kg	TM173			33300	69100	32900	70200	25500	2660
Aliphatics >C16-C21	<100 µg/kg	TM173			89700	425000	207000	400000	635000	5990
Aliphatics >C21-C35	<100 µg/kg	TM173			1900000	798000	6330000	17500000	15000000	127000
Aliphatics >C35-C44	<100 µg/kg	TM173			193000	24600	1630000	4120000	861000	16300
Total Aliphatics >C12-C44	<100 µg/kg	TM173			2220000	1320000	8190000	22000000	16500000	152000
Aromatics >EC5-EC7	<10 µg/kg	TM089			<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089			<10	<10	<10	<10	31.3	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089			177	651	93.5	192	252	59.5
Aromatics >EC10-EC12	<10 µg/kg	TM089			596	900	222	315	123	49.2
Aromatics >EC12-EC16	<100 µg/kg	TM173			9110	25000	21900	20700	24000	3800
Aromatics >EC16-EC21	<100 µg/kg	TM173			26500	187000	114000	110000	315000	4780
Aromatics >EC21-EC35	<100 µg/kg	TM173			284000	424000	2460000	3280000	5690000	50800
Aromatics >EC35-EC44	<100 µg/kg	TM173			50300	16700	721000	984000	355000	6040
Aromatics >EC40-EC44	<100 µg/kg	TM173			18300	3240	305000	413000	152000	2090
Total Aromatics >EC12-EC44	<100 µg/kg	TM173			370000	653000	3320000	4400000	6390000	65500
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173			2590000	1980000	11500000	26400000	22900000	225000
Total Aliphatics >C5-35	<100 µg/kg	TM173			2020000	1300000	6570000	17900000	15600000	143000
Total Aromatics >C5-35	<100 µg/kg	TM173			320000	638000	2600000	3410000	6030000	59500
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173			2340000	1930000	9160000	21300000	21700000	203000



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
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Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	DVP68	DVP68	DVP68	DVP68	DVP69	DVP69
#	ISO17025 accredited.		0.50	1.20	1.50	2.00	0.50	1.50
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
S	Non-conforming work.		-	-	-	-	-	-
aq	Aqueous / settled sample.		21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011
diss.filt	Dissolved / filtered sample.		110523-21	110523-21	110523-21	110523-21	110523-21	110523-21
tot.unfilt	Total / unfiltered sample.		3514367	3514368	3514370	3514372	3514374	3514377
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	58	14	23	49	43	85
GRO >C5-C12	<44 µg/kg	TM089	17100	3450	2100	5980	2880	2810
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5	<5	<5	<5	<5	<5
Benzene	<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10
Toluene	<2 µg/kg	TM089	<2	<2	11.7	<2	5.42	<2
Ethylbenzene	<3 µg/kg	TM089	<3	<3	17.6	<3	<3	<3
m,p-Xylene	<6 µg/kg	TM089	<6	<6	48	<6	<6	<6
o-Xylene	<3 µg/kg	TM089	<3	<3	15.2	<3	<3	<3
m,p,o-Xylene	µg/kg	TM089	<10	<10		<10		<10
sum of detected mpo xylene by GC	µg/kg	TM089			63.2		none detected	
BTEX, Total	µg/kg	TM089	<10	<10		<10		<10
sum of detected BTEX by GC	µg/kg	TM089			92.5		5.42	
Aliphatics >C5-C6	<10 µg/kg	TM089	177	305	38.6	123	44.4	38.1
Aliphatics >C6-C8	<10 µg/kg	TM089	842	1210	395	945	118	97.3
Aliphatics >C8-C10	<10 µg/kg	TM089	4870	542	411	1720	601	489
Aliphatics >C10-C12	<10 µg/kg	TM089	4780	619	531	1220	1020	1120
Aliphatics >C12-C16	<100 µg/kg	TM173	131000	76800	27000	71300	229000	13400
Aliphatics >C16-C21	<100 µg/kg	TM173	158000	573000	185000	203000	1250000	118000
Aliphatics >C21-C35	<100 µg/kg	TM173	955000	24900000	6990000	3940000	2030000	129000
Aliphatics >C35-C44	<100 µg/kg	TM173	215000	7290000	1680000	1210000	240000	7700
Total Aliphatics >C12-C44	<100 µg/kg	TM173	1460000	32800000	8880000	5420000	3760000	268000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	10.1	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	11.7	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	3240	362	355	1150	401	326
Aromatics >EC10-EC12	<10 µg/kg	TM089	3190	412	355	815	681	745
Aromatics >EC12-EC16	<100 µg/kg	TM173	132000	66100	40000	44000	119000	9700
Aromatics >EC16-EC21	<100 µg/kg	TM173	95900	248000	110000	88400	783000	94700
Aromatics >EC21-EC35	<100 µg/kg	TM173	488000	8600000	2300000	1320000	1570000	118000
Aromatics >EC35-EC44	<100 µg/kg	TM173	163000	2390000	521000	335000	245000	7080
Aromatics >EC40-EC44	<100 µg/kg	TM173	61000	980000	186000	127000	100000	1290
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	879000	11300000	2970000	1790000	2720000	230000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	2360000	44100000	11900000	7220000	6480000	500000
Total Aliphatics >C5-35	<100 µg/kg	TM173	1260000	25500000	7210000	4220000	3520000	262000
Total Aromatics >C5-35	<100 µg/kg	TM173	722000	8920000	2450000	1460000	2470000	224000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173	1980000	34500000	9650000	5680000	5990000	486000



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
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Location: Coed Darcy Urban Village
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Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

TPH CWG (S)

Results Legend			Customer Sample R		DVP69	DVP70	DVP71	DVP71	DVP71	DVP72
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference			2.50	0.80	0.40	1.00	1.60	0.50
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
S	Non-conforming work.				-	-	-	-	-	-
aq	Aqueous / settled sample.				21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011
diss.filt	Dissolved / filtered sample.				110523-21	110523-21	110523-21	110523-21	110523-21	110523-21
tot.unfilt	Total / unfiltered sample.				3514379	3514382	3514383	3514385	3514386	3514388
*	Subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F)	Trigger breach confirmed									
Component	LOD/Units	Method								
GRO Surrogate % recovery**	%	TM089			84	24	57	20	92	38
GRO >C5-C12	<44 µg/kg	TM089			805	1870	3370	23500	35300	1430
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089			<5	<5	<5	<10	<5	<5
Benzene	<10 µg/kg	TM089			<10	<10	<10	<20	<10	<10
Toluene	<2 µg/kg	TM089			3.36	<2	12.3	<4	<2	9.28
Ethylbenzene	<3 µg/kg	TM089			<3	<3	<3	<6	<3	<3
m,p-Xylene	<6 µg/kg	TM089			<6	<6	11.2	<12	<6	<6
o-Xylene	<3 µg/kg	TM089			<3	<3	<3	<6	<3	<3
m,p,o-Xylene	µg/kg	TM089				<10	11.2	<20	<10	<10
sum of detected mpo xylene by GC	µg/kg	TM089			none detected					
BTEX, Total	µg/kg	TM089				<10	23.5	<20	<10	<10
sum of detected BTEX by GC	µg/kg	TM089			3.36					
Aliphatics >C5-C6	<10 µg/kg	TM089			51.5	28.8	<10	<20	11.9	11.6
Aliphatics >C6-C8	<10 µg/kg	TM089			52.6	158	271	169	1130	75.4
Aliphatics >C8-C10	<10 µg/kg	TM089			137	288	676	4020	10000	263
Aliphatics >C10-C12	<10 µg/kg	TM089			281	723	1160	9990	10500	534
Aliphatics >C12-C16	<100 µg/kg	TM173			3740	452000	116000	368000	174000	20600
Aliphatics >C16-C21	<100 µg/kg	TM173			10400	2090000	525000	882000	290000	69100
Aliphatics >C21-C35	<100 µg/kg	TM173			106000	5060000	1240000	753000	93600	552000
Aliphatics >C35-C44	<100 µg/kg	TM173			22900	1770000	162000	127000	6030	180000
Total Aliphatics >C12-C44	<100 µg/kg	TM173			143000	9370000	2040000	2130000	563000	822000
Aromatics >EC5-EC7	<10 µg/kg	TM089			<10	<10	<10	<20	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089			<10	<10	12.3	<20	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089			90.7	191	463	2680	6690	175
Aromatics >EC10-EC12	<10 µg/kg	TM089			187	483	774	6660	6980	356
Aromatics >EC12-EC16	<100 µg/kg	TM173			3000	232000	23400	219000	75400	9070
Aromatics >EC16-EC21	<100 µg/kg	TM173			6620	1720000	169000	369000	135000	32100
Aromatics >EC21-EC35	<100 µg/kg	TM173			35300	4240000	498000	508000	63000	217000
Aromatics >EC35-EC44	<100 µg/kg	TM173			5230	1560000	93700	171000	11100	102000
Aromatics >EC40-EC44	<100 µg/kg	TM173			1230	645000	36300	61000	3000	37500
Total Aromatics >EC12-EC44	<100 µg/kg	TM173			50200	7750000	784000	1270000	285000	360000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173			194000	17100000	2830000	3420000	883000	1180000
Total Aliphatics >C5-35	<100 µg/kg	TM173			121000	7600000	1880000	2020000	578000	643000
Total Aromatics >C5-35	<100 µg/kg	TM173			45300	6190000	691000	1110000	287000	258000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173			166000	13800000	2570000	3120000	866000	901000



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

TPH CWG (S)

Results Legend			Customer Sample R		DVP72	DVP73	DVP73	DVP74	DVP74	
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference		1.00	0.50	1.80	0.20	1.40	
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	
S	Non-conforming work.				-	-	-	-	-	
aq	Aqueous / settled sample.				21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011	
diss.filt	Dissolved / filtered sample.				110523-21	110523-21	110523-21	110523-21	110523-21	
tot.unfilt	Total / unfiltered sample.				3514389	3514390	3514393	3514395	3514397	
*	Subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F)	Trigger breach confirmed									
Component	LOD/Units	Method								
GRO Surrogate % recovery**	%	TM089			4	21	7	63	72	
GRO >C5-C12	<44 µg/kg	TM089			<44	<44	<44	5660	1460	
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089			<5	<5	<5	<5	<5	
Benzene	<10 µg/kg	TM089			<10	<10	<10	<10	<10	
Toluene	<2 µg/kg	TM089			2.22	8.88	2.2	3.33	4.48	
Ethylbenzene	<3 µg/kg	TM089			<3	<3	<3	<3	<3	
m,p-Xylene	<6 µg/kg	TM089			<6	<6	<6	<6	<6	
o-Xylene	<3 µg/kg	TM089			<3	<3	<3	<3	<3	
m,p,o-Xylene	µg/kg	TM089						<10	<10	
sum of detected mpo xylene by GC	µg/kg	TM089			none detected	none detected	none detected			
BTEX, Total	µg/kg	TM089						<10	<10	
sum of detected BTEX by GC	µg/kg	TM089			2.22	8.88	2.2			
Aliphatics >C5-C6	<10 µg/kg	TM089			<10	<10	<10	14.4	16.8	
Aliphatics >C6-C8	<10 µg/kg	TM089			<10	<10	<10	46.6	25.8	
Aliphatics >C8-C10	<10 µg/kg	TM089			<10	<10	<10	922	258	
Aliphatics >C10-C12	<10 µg/kg	TM089			<10	<10	<10	2430	586	
Aliphatics >C12-C16	<100 µg/kg	TM173			8870	10500	6440	94600	12900	
Aliphatics >C16-C21	<100 µg/kg	TM173			10600	9620	4550	165000	28900	
Aliphatics >C21-C35	<100 µg/kg	TM173			17600	30200	10500	685000	100000	
Aliphatics >C35-C44	<100 µg/kg	TM173			3060	4870	2250	203000	24600	
Total Aliphatics >C12-C44	<100 µg/kg	TM173			40000	55200	23700	1150000	167000	
Aromatics >EC5-EC7	<10 µg/kg	TM089			<10	<10	<10	<10	<10	
Aromatics >EC7-EC8	<10 µg/kg	TM089			<10	<10	<10	<10	<10	
Aromatics >EC8-EC10	<10 µg/kg	TM089			<10	<10	<10	615	176	
Aromatics >EC10-EC12	<10 µg/kg	TM089			<10	<10	<10	1620	391	
Aromatics >EC12-EC16	<100 µg/kg	TM173			5660	5480	3980	35600	8530	
Aromatics >EC16-EC21	<100 µg/kg	TM173			7780	2900	4950	79800	18600	
Aromatics >EC21-EC35	<100 µg/kg	TM173			14900	<100	10500	302000	61400	
Aromatics >EC35-EC44	<100 µg/kg	TM173			3620	<100	2310	101000	19600	
Aromatics >EC40-EC44	<100 µg/kg	TM173			1010	<100	405	37400	6440	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173			32000	8380	21700	518000	108000	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173			72000	63600	45400	1670000	276000	
Total Aliphatics >C5-35	<100 µg/kg	TM173			37000	50300	21500	948000	143000	
Total Aromatics >C5-35	<100 µg/kg	TM173			28400	8400	19400	419000	89000	
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173			65400	58800	40900	1370000	232000	



CERTIFICATE OF ANALYSIS

SDG: 110523-21
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Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

TPH CWG (W)

Results Legend		Customer Sample R Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	DVP63	DVP66	DVP67			
#	ISO17025 accredited.		1.80	1.20	1.70			
M	mCERTS accredited.		Saline A	Saline A	Saline A			
S	Non-conforming work.		-	-	-			
aq	Aqueous / settled sample.		21/05/2011	21/05/2011	21/05/2011			
diss.filt	Dissolved / filtered sample.		110523-21	110523-21	110523-21			
tot.unfilt	Total / unfiltered sample.		3514347	3514360	3514366			
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM245	93	92	81			
GRO >C5-C12	<50 µg/l	TM245	27200	4560	14000			
Methyl tertiary butyl ether (MTBE)	<3 µg/l	TM245	<3	<3	<3			
Benzene	<7 µg/l	TM245	18	<7	<7			
Toluene	<4 µg/l	TM245	20	<4	6			
Ethylbenzene	<5 µg/l	TM245	<5	<5	<5			
m,p-Xylene	<8 µg/l	TM245	80	<8	8			
o-Xylene	<3 µg/l	TM245	<3	4	6			
m,p,o-Xylene	µg/l	TM245		<10				
Sum of detected Xylenes	µg/l	TM245	80		14			
BTEX, Total	µg/l	TM245		<10				
Sum of detected BTEX	µg/l	TM245	118		20			
Aliphatics >C5-C6	<10 µg/l	TM245	<10	20	2940			
Aliphatics >C6-C8	<10 µg/l	TM245	500	2790	10600			
Aliphatics >C8-C10	<10 µg/l	TM245	5230	200	117			
Aliphatics >C10-C12	<10 µg/l	TM245	10700	843	162			
Aliphatics >C12-C16 (aq)	<10 µg/l	TM174	1120000	4430	4520			
Aliphatics >C16-C21 (aq)	<10 µg/l	TM174	24800	10100	38000			
Aliphatics >C21-C35 (aq)	<10 µg/l	TM174	59500	31200	1040000			
Total Aliphatics >C12-C35 (aq)	<10 µg/l	TM174	1200000	45700	1090000			
Aromatics >EC5-EC7	<10 µg/l	TM245	18	<10	<10			
Aromatics >EC7-EC8	<10 µg/l	TM245	20	<10	<10			
Aromatics >EC8-EC10	<10 µg/l	TM245	3570	144	95			
Aromatics >EC10-EC12	<10 µg/l	TM245	7130	562	108			
Aromatics >EC12-EC16 (aq)	<10 µg/l	TM174	108000	1120	766			
Aromatics >EC16-EC21 (aq)	<10 µg/l	TM174	7400	3210	4070			
Aromatics >EC21-EC35 (aq)	<10 µg/l	TM174	8960	12700	175000			
Total Aromatics >EC12-EC35 (aq)	<10 µg/l	TM174	124000	17000	180000			
Total Aliphatics & Aromatics >C5-35 (aq)	<10 µg/l	TM174	1360000	67300	1280000			



CERTIFICATE OF ANALYSIS

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Order Number: CD0127
Report Number: 131655
Superseded Report:

VOC MS (S)

Results Legend			Customer Sample R		DVP58	DVP59	DVP59	DVP60	DVP60	DVP61
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.80	1.20	2.50	0.30	2.10	0.20
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
\$	Non-conforming work.				-	-	-	-	-	-
aq	Aqueous / settled sample.				-	-	-	-	-	-
diss.filt	Dissolved / filtered sample.				-	-	-	-	-	-
tot.unfilt	Total / unfiltered sample.				-	-	-	-	-	-
*	Subcontracted test.				21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				110523-21	110523-21	110523-21	110523-21	110523-21	110523-21
(F)	Trigger breach confirmed				3514312	3514319	3514321	3514322	3514325	3514333
Component	LOD/Units	Method								
Dibromofluoromethane**	%	TM116			103	101	102	74.3	110	74
Toluene-d8**	%	TM116			106	96.1	97.9	96.1	102	91.8
4-Bromofluorobenzene**	%	TM116			102	125	132	133	100	147
Dichlorodifluoromethane	<4 µg/kg	TM116			<80	<4	<80	<4	<4	<4
Chloromethane	<7 µg/kg	TM116			<140	<7	<140	<7	<7	<7
Vinyl Chloride	<10 µg/kg	TM116			<200	<10	<200	<10	<10	<10
Bromomethane	<13 µg/kg	TM116			<260	<13	<260	<13	<13	<13
Chloroethane	<14 µg/kg	TM116			<280	<14	<280	<14	<14	<14
Trichlorofluoromethane	<6 µg/kg	TM116			<120	<6	<120	9.88	<6	8.35
1,1-Dichloroethene	<10 µg/kg	TM116			<200	<10	<200	<10	<10	<10
Carbon Disulphide	<7 µg/kg	TM116			<140	9.88	<140	44.4	<7	85.7
Dichloromethane	<10 µg/kg	TM116			<200	19.8	<200	15.7	<10	13.4
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116			<220	<11	<220	<11	<11	<11
trans-1-2-Dichloroethene	<11 µg/kg	TM116			<220	<11	<220	<11	<11	<11
1,1-Dichloroethane	<8 µg/kg	TM116			<160	<8	<160	<8	<8	<8
cis-1-2-Dichloroethene	<5 µg/kg	TM116			<100	<5	<100	<5	<5	<5
2,2-Dichloropropane	<12 µg/kg	TM116			<240	<12	<240	<12	<12	<12
Bromochloromethane	<14 µg/kg	TM116			<280	<14	<280	<14	<14	<14
Chloroform	<8 µg/kg	TM116			<160	<8	<160	<8	<8	<8
1,1,1-Trichloroethane	<7 µg/kg	TM116			<140	<7	<140	<7	<7	<7
1,1-Dichloropropene	<11 µg/kg	TM116			<220	<11	<220	<11	<11	<11
Carbontetrachloride	<14 µg/kg	TM116			<280	<14	<280	<14	<14	<14
1,2-Dichloroethane	<5 µg/kg	TM116			<100	<5	<100	44.4	16.8	<5
Benzene	<9 µg/kg	TM116			<180	68.5	<180	23	<9	102
Trichloroethene	<9 µg/kg	TM116			<180	<9	<180	<9	<9	<9
1,2-Dichloropropane	<12 µg/kg	TM116			<240	<12	<240	<12	<12	<12
Dibromomethane	<9 µg/kg	TM116			<180	<9	<180	<9	<9	<9
Bromodichloromethane	<7 µg/kg	TM116			<140	<7	<140	<7	<7	<7
cis-1-3-Dichloropropene	<14 µg/kg	TM116			<280	<14	<280	<14	<14	<14
Toluene	<5 µg/kg	TM116			<100	33.6	177	6.78	<5	12.8
trans-1-3-Dichloropropene	<14 µg/kg	TM116			<280	<14	<280	<14	<14	<14
1,1,2-Trichloroethane	<10 µg/kg	TM116			<200	<10	<200	<10	<10	<10
1,3-Dichloropropane	<7 µg/kg	TM116			<140	<7	<140	<7	<7	<7
Tetrachloroethene	<5 µg/kg	TM116			<100	<5	<100	<5	<5	<5
Dibromochloromethane	<13 µg/kg	TM116			<260	<13	<260	<13	<13	<13



CERTIFICATE OF ANALYSIS

SDG: 110523-21
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Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

VOC MS (S)

Results Legend			Customer Sample R	DVP58	DVP59	DVP59	DVP60	DVP60	DVP61
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.80	1.20	2.50	0.30	2.10	0.20
M	mCERTS accredited.			Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
S	Non-conforming work.			-	-	-	-	-	-
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
Component	LOD/Units	Method							
1.2-Dibromoethane	<12 µg/kg	TM116	<240 M	<12 M	<240 \$	<12 M	<12 M	<12 M	
Chlorobenzene	<5 µg/kg	TM116	<100 M	<5 M	<100 \$	<5 M	<5 M	<5 M	
1.1.1.2-Tetrachloroethane	<10 µg/kg	TM116	<200 M	<10 M	<200 \$	<10 M	<10 M	<10 M	
Ethylbenzene	<4 µg/kg	TM116	<80 M	<4 M	<80 \$	41.4 M	<4 M	54.1 M	
p/m-Xylene	<14 µg/kg	TM116	<280 #	<14 #	<280 \$	61.4 #	<14 #	175 #	
o-Xylene	<10 µg/kg	TM116	<200 M	<10 M	<200 \$	<10 M	<10 M	34.7 M	
Styrene	<10 µg/kg	TM116	<200 M	<10 M	<200 \$	<10 M	<10 M	<10 M	
Bromoform	<10 µg/kg	TM116	<200 M	<10 M	<200 \$	<10 M	<10 M	<10 M	
Isopropylbenzene	<5 µg/kg	TM116	<100 M	269 M	<100 \$	30.4 M	57.8 M	36.2 M	
1.1.2.2-Tetrachloroethane	<10 µg/kg	TM116	<200 #	<10 #	<200 \$	<10 #	<10 #	<10 #	
1.2.3-Trichloropropane	<17 µg/kg	TM116	<340 M	<17 M	<340 \$	<17 M	<17 M	<17 M	
Bromobenzene	<10 µg/kg	TM116	<200 M	<10 M	<200 \$	<10 M	<10 M	<10 M	
Propylbenzene	<11 µg/kg	TM116	<220 M	372 M	<220 \$	69.5 M	<11 M	88.9 M	
2-Chlorotoluene	<9 µg/kg	TM116	<180 M	<9 M	<180 \$	<9 M	<9 M	<9 M	
1.3.5-Trimethylbenzene	<8 µg/kg	TM116	<160 #	<8 #	<160 \$	121 #	<8 #	98.9 #	
4-Chlorotoluene	<12 µg/kg	TM116	<240 M	<12 M	<240 \$	<12 M	<12 M	<12 M	
tert-Butylbenzene	<12 µg/kg	TM116	<240 #	<12 #	<240 \$	<12 #	<12 #	<12 #	
1.2.4-Trimethylbenzene	<9 µg/kg	TM116	<180 #	<9 #	<180 \$	145 #	<9 #	652 #	
sec-Butylbenzene	<10 µg/kg	TM116	<200 M	748 M	<200 \$	<10 M	770 M	115 M	
4-Isopropyltoluene	<11 µg/kg	TM116	<220 M	<11 M	<220 \$	<11 M	<11 M	127 M	
1.3-Dichlorobenzene	<6 µg/kg	TM116	<120 M	<6 M	<120 \$	<6 M	<6 M	<6 M	
1.4-Dichlorobenzene	<5 µg/kg	TM116	<100 M	<5 M	<100 \$	<5 M	<5 M	<5 M	
n-Butylbenzene	<10 µg/kg	TM116	<200 M	684 M	<200 \$	<10 M	<10 M	<10 M	
1.2-Dichlorobenzene	<12 µg/kg	TM116	<240 M	<12 M	<240 \$	<12 M	<12 M	<12 M	
1.2-Dibromo-3-chloropropene	<14 µg/kg	TM116	<280 M	<14 M	<280 \$	<14 M	<14 M	<14 M	
Tert-amyl methyl ether	<15 µg/kg	TM116	<300	<15	<300 \$	<15	<15	<15	
1.2.4-Trichlorobenzene	<6 µg/kg	TM116	<120 #	<6 #	<120 \$	<6 #	<6 #	<6 #	
Hexachlorobutadiene	<12 µg/kg	TM116	<240	<12	<240 \$	<12	<12	<12	
Naphthalene	<13 µg/kg	TM116	<260 M	<13 M	<260 \$	<13 M	<13 M	310 M	
1.2.3-Trichlorobenzene	<6 µg/kg	TM116	<120 M	<6 M	<120 \$	<6 M	<6 M	<6 M	



CERTIFICATE OF ANALYSIS

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Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

VOC MS (S)

Results Legend			Customer Sample R		DVP61	DVP62	DVP62	DVP63	DVP64	DVP64
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference		1.50	0.20	1.00	0.80	0.50	1.30
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
\$	Non-conforming work.				-	-	-	-	-	-
aq	Aqueous / settled sample.				21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011
diss.filt	Dissolved / filtered sample.				110523-21	110523-21	110523-21	110523-21	110523-21	110523-21
tot.unfilt	Total / unfiltered sample.				3514336	3514339	3514340	3514345	3514348	3514349
*	Subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F)	Trigger breach confirmed									
Component	LOD/Units	Method								
Dibromofluoromethane**	%	TM116			104	104	105	85.9	105	104
Toluene-d8**	%	TM116			98	99.6	101	92.1	101	103
4-Bromofluorobenzene**	%	TM116			119	117	122	137	113	107
Dichlorodifluoromethane	<4 µg/kg	TM116			<4	<80	<4	<4	<80	<80
Chloromethane	<7 µg/kg	TM116			<7	<140	<7	<7	<140	<140
Vinyl Chloride	<10 µg/kg	TM116			<10	<200	<10	<10	<200	<200
Bromomethane	<13 µg/kg	TM116			<13	<260	<13	<13	<260	<260
Chloroethane	<14 µg/kg	TM116			<14	<280	<14	<14	<280	<280
Trichlorofluoromethane	<6 µg/kg	TM116			<6	<120	<6	<6	<120	<120
1,1-Dichloroethene	<10 µg/kg	TM116			<10	<200	<10	<10	<200	<200
Carbon Disulphide	<7 µg/kg	TM116			9.96	173	<7	84.6	168	<140
Dichloromethane	<10 µg/kg	TM116			<10	<200	<10	<10	<200	<200
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116			<11	<220	<11	<11	<220	<220
trans-1-2-Dichloroethene	<11 µg/kg	TM116			<11	<220	<11	<11	<220	<220
1,1-Dichloroethane	<8 µg/kg	TM116			<8	<160	<8	<8	<160	<160
cis-1-2-Dichloroethene	<5 µg/kg	TM116			<5	<100	<5	<5	<100	<100
2,2-Dichloropropane	<12 µg/kg	TM116			<12	<240	<12	<12	<240	<240
Bromochloromethane	<14 µg/kg	TM116			<14	<280	<14	<14	<280	<280
Chloroform	<8 µg/kg	TM116			<8	<160	<8	<8	<160	<160
1,1,1-Trichloroethane	<7 µg/kg	TM116			<7	<140	<7	<7	<140	<140
1,1-Dichloropropene	<11 µg/kg	TM116			<11	<220	<11	<11	<220	<220
Carbontetrachloride	<14 µg/kg	TM116			<14	<280	<14	<14	<280	<280
1,2-Dichloroethane	<5 µg/kg	TM116			39.5	<100	27.2	41.2	<100	<100
Benzene	<9 µg/kg	TM116			<9	<180	<9	54.7	<180	<180
Trichloroethene	<9 µg/kg	TM116			<9	<180	<9	<9	<180	<180
1,2-Dichloropropane	<12 µg/kg	TM116			<12	<240	<12	<12	<240	<240
Dibromomethane	<9 µg/kg	TM116			<9	<180	<9	<9	<180	<180
Bromodichloromethane	<7 µg/kg	TM116			<7	<140	<7	<7	<140	<140
cis-1-3-Dichloropropene	<14 µg/kg	TM116			<14	<280	<14	<14	<280	<280
Toluene	<5 µg/kg	TM116			<5	214	8.85	185	<100	<100
trans-1-3-Dichloropropene	<14 µg/kg	TM116			<14	<280	<14	<14	<280	<280
1,1,2-Trichloroethane	<10 µg/kg	TM116			<10	<200	<10	<10	<200	<200
1,3-Dichloropropane	<7 µg/kg	TM116			<7	<140	<7	<7	<140	<140
Tetrachloroethene	<5 µg/kg	TM116			<5	<100	<5	<5	<100	<100
Dibromochloromethane	<13 µg/kg	TM116			<13	<260	<13	<13	<260	<260



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

VOC MS (S)

Results Legend		Customer Sample R Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	DVP61	DVP62	DVP62	DVP63	DVP64	DVP64
#	ISO17025 accredited.		1.50	0.20	1.00	0.80	0.50	1.30
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
S	Non-conforming work.		-	-	-	-	-	-
aq	Aqueous / settled sample.		21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011
diss.filt	Dissolved / filtered sample.		110523-21	110523-21	110523-21	110523-21	110523-21	110523-21
tot.unfilt	Total / unfiltered sample.		3514336	3514339	3514340	3514345	3514348	3514349
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
Component	LOD/Units	Method						
1.2-Dibromoethane	<12 µg/kg	TM116	<12 M	<240 \$	<12 M	<12 M	<240 \$	<240 \$
Chlorobenzene	<5 µg/kg	TM116	<5 M	<100 \$	<5 M	<5 M	<100 \$	<100 \$
1.1.1.2-Tetrachloroethane	<10 µg/kg	TM116	<10 M	<200 \$	<10 M	<10 M	<200 \$	<200 \$
Ethylbenzene	<4 µg/kg	TM116	<4 M	301 \$	5.57 M	232 M	<80 \$	<80 \$
p/m-Xylene	<14 µg/kg	TM116	<14 #	361 \$	<14 #	302 #	<280 \$	<280 \$
o-Xylene	<10 µg/kg	TM116	<10 M	<200 \$	<10 M	121 M	<200 \$	<200 \$
Styrene	<10 µg/kg	TM116	<10 M	<200 \$	<10 M	<10 M	<200 \$	<200 \$
Bromoform	<10 µg/kg	TM116	<10 M	<200 \$	<10 M	<10 M	<200 \$	<200 \$
Isopropylbenzene	<5 µg/kg	TM116	18.5 M	<100 \$	<5 M	120 M	<100 \$	<100 \$
1.1.2.2-Tetrachloroethane	<10 µg/kg	TM116	<10 #	<200 \$	<10 #	<10 #	<200 \$	<200 \$
1.2.3-Trichloropropane	<17 µg/kg	TM116	<17 M	<340 \$	<17 M	<17 M	<340 \$	<340 \$
Bromobenzene	<10 µg/kg	TM116	<10 M	<200 \$	<10 M	<10 M	<200 \$	<200 \$
Propylbenzene	<11 µg/kg	TM116	<11 M	<220 \$	<11 M	165 M	<220 \$	<220 \$
2-Chlorotoluene	<9 µg/kg	TM116	<9 M	<180 \$	<9 M	<9 M	<180 \$	<180 \$
1.3.5-Trimethylbenzene	<8 µg/kg	TM116	<8 #	<160 \$	<8 #	96.6 #	<160 \$	<160 \$
4-Chlorotoluene	<12 µg/kg	TM116	<12 M	<240 \$	<12 M	<12 M	<240 \$	<240 \$
tert-Butylbenzene	<12 µg/kg	TM116	<12 #	<240 \$	<12 #	<12 #	<240 \$	<240 \$
1.2.4-Trimethylbenzene	<9 µg/kg	TM116	<9 #	647 \$	<9 #	594 #	<180 \$	<180 \$
sec-Butylbenzene	<10 µg/kg	TM116	107 M	<200 \$	<10 M	220 M	<200 \$	<200 \$
4-Isopropyltoluene	<11 µg/kg	TM116	<11 M	<220 \$	<11 M	207 M	<220 \$	<220 \$
1.3-Dichlorobenzene	<6 µg/kg	TM116	<6 M	<120 \$	<6 M	<6 M	<120 \$	<120 \$
1.4-Dichlorobenzene	<5 µg/kg	TM116	<5 M	<100 \$	<5 M	<5 M	<100 \$	<100 \$
n-Butylbenzene	<10 µg/kg	TM116	<10 M	<200 \$	<10 M	<10 M	<200 \$	<200 \$
1.2-Dichlorobenzene	<12 µg/kg	TM116	<12 M	<240 \$	<12 M	<12 M	<240 \$	<240 \$
1.2-Dibromo-3-chloropropene	<14 µg/kg	TM116	<14 M	<280 \$	<14 M	<14 M	<280 \$	<280 \$
Tert-amyl methyl ether	<15 µg/kg	TM116	<15 \$	<300 \$	<15 \$	<15 \$	<300 \$	<300 \$
1.2.4-Trichlorobenzene	<6 µg/kg	TM116	<6 #	<120 \$	<6 #	<6 #	<120 \$	<120 \$
Hexachlorobutadiene	<12 µg/kg	TM116	<12 \$	<240 \$	<12 \$	<12 \$	<240 \$	<240 \$
Naphthalene	<13 µg/kg	TM116	<13 M	<260 \$	<13 M	<13 M	<260 \$	<260 \$
1.2.3-Trichlorobenzene	<6 µg/kg	TM116	<6 M	<120 \$	<6 M	<6 M	<120 \$	<120 \$



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

VOC MS (S)

Results Legend			Customer Sample R		DVP65	DVP65	DVP65	DVP66	DVP66	DVP67
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.20	1.30	2.50	0.70	1.20	0.50
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
\$	Non-conforming work.				-	-	-	-	-	-
aq	Aqueous / settled sample.				21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011
diss.filt	Dissolved / filtered sample.				110523-21	110523-21	110523-21	110523-21	110523-21	110523-21
tot.unfilt	Total / unfiltered sample.				3514353	3514355	3514356	3514358	3514359	3514361
*	Subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F)	Trigger breach confirmed									
Component	LOD/Units	Method								
Dibromofluoromethane**	%	TM116			101	101	92.5	8.27	92.6	100
Toluene-d8**	%	TM116			100	109	101	105	93	105
4-Bromofluorobenzene**	%	TM116			104	110	110	133	146	128
Dichlorodifluoromethane	<4 µg/kg	TM116			<80	<80	<8	<8	<4	<80
Chloromethane	<7 µg/kg	TM116			<140	<140	<14	<14	<7	<140
Vinyl Chloride	<10 µg/kg	TM116			<200	<200	<20	<20	14.6	<200
Bromomethane	<13 µg/kg	TM116			<260	<260	<26	<26	<13	<260
Chloroethane	<14 µg/kg	TM116			<280	<280	<28	<28	<14	<280
Trichlorofluoromethane	<6 µg/kg	TM116			<120	<120	<12	<12	<6	<120
1,1-Dichloroethene	<10 µg/kg	TM116			<200	<200	<20	<20	<10	<200
Carbon Disulphide	<7 µg/kg	TM116			<140	<140	36.1	210	117	<140
Dichloromethane	<10 µg/kg	TM116			<200	<200	33.9	29.8	55.8	607
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116			<220	<220	<22	<22	<11	<220
trans-1-2-Dichloroethene	<11 µg/kg	TM116			<220	<220	<22	<22	<11	<220
1,1-Dichloroethane	<8 µg/kg	TM116			<160	<160	<16	<16	<8	<160
cis-1-2-Dichloroethene	<5 µg/kg	TM116			<100	<100	<10	<10	<5	<100
2,2-Dichloropropane	<12 µg/kg	TM116			<240	<240	<24	<24	<12	<240
Bromochloromethane	<14 µg/kg	TM116			<280	<280	<28	<28	<14	<280
Chloroform	<8 µg/kg	TM116			<160	<160	<16	<16	<8	<160
1,1,1-Trichloroethane	<7 µg/kg	TM116			<140	<140	<14	<14	<7	<140
1,1-Dichloropropene	<11 µg/kg	TM116			<220	<220	<22	<22	<11	<220
Carbontetrachloride	<14 µg/kg	TM116			<280	<280	<28	<28	<14	<280
1,2-Dichloroethane	<5 µg/kg	TM116			<100	<100	<10	97.8	574	1410
Benzene	<9 µg/kg	TM116			<180	<180	<18	<18	<9	<180
Trichloroethene	<9 µg/kg	TM116			<180	<180	<18	<18	<9	<180
1,2-Dichloropropane	<12 µg/kg	TM116			<240	<240	<24	<24	<12	<240
Dibromomethane	<9 µg/kg	TM116			<180	<180	<18	<18	<9	<180
Bromodichloromethane	<7 µg/kg	TM116			<140	<140	<14	<14	<7	<140
cis-1-3-Dichloropropene	<14 µg/kg	TM116			<280	<280	<28	<28	<14	<280
Toluene	<5 µg/kg	TM116			<100	197	30.9	<10	10.4	<100
trans-1-3-Dichloropropene	<14 µg/kg	TM116			<280	<280	<28	<28	<14	<280
1,1,2-Trichloroethane	<10 µg/kg	TM116			<200	<200	<20	<20	<10	<200
1,3-Dichloropropane	<7 µg/kg	TM116			<140	<140	<14	<14	<7	<140
Tetrachloroethene	<5 µg/kg	TM116			<100	<100	<10	<10	9.94	<100
Dibromochloromethane	<13 µg/kg	TM116			<260	<260	<26	<26	<13	<260



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

VOC MS (S)

Results Legend		Customer Sample R						
#	ISO17025 accredited.		DVP65		DVP65		DVP66	
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.20		1.30		0.70	
S	Non-conforming work.		Soil/Solid		Soil/Solid		Soil/Solid	
aq	Aqueous / settled sample.		-		-		-	
diss.filt	Dissolved / filtered sample.		21/05/2011		21/05/2011		21/05/2011	
tot.unfilt	Total / unfiltered sample.		110523-21		110523-21		110523-21	
*	Subcontracted test.		3514353		3514355		3514358	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
Component	LOD/Units	Method						
1.2-Dibromoethane	<12 µg/kg	TM116	<240	M	<240	M	<24	#
Chlorobenzene	<5 µg/kg	TM116	<100	M	<100	M	<10	#
1.1.1.2-Tetrachloroethane	<10 µg/kg	TM116	<200	M	<200	M	<20	#
Ethylbenzene	<4 µg/kg	TM116	<80	M	634	M	<8	#
p/m-Xylene	<14 µg/kg	TM116	<280	#	2760	#	<28	#
o-Xylene	<10 µg/kg	TM116	<200	M	3100	M	<20	#
Styrene	<10 µg/kg	TM116	<200	M	<200	M	<20	#
Bromoform	<10 µg/kg	TM116	<200	M	<200	M	<20	#
Isopropylbenzene	<5 µg/kg	TM116	<100	M	649	M	<10	#
1.1.2.2-Tetrachloroethane	<10 µg/kg	TM116	<200	#	<200	#	<20	#
1.2.3-Trichloropropane	<17 µg/kg	TM116	<340	M	<340	M	<34	#
Bromobenzene	<10 µg/kg	TM116	<200	M	<200	M	<20	#
Propylbenzene	<11 µg/kg	TM116	<220	M	1300	M	<22	#
2-Chlorotoluene	<9 µg/kg	TM116	<180	M	<180	M	<18	#
1.3.5-Trimethylbenzene	<8 µg/kg	TM116	<160	#	3410	#	<16	#
4-Chlorotoluene	<12 µg/kg	TM116	<240	M	<240	M	<24	#
tert-Butylbenzene	<12 µg/kg	TM116	<240	#	<240	#	<24	#
1.2.4-Trimethylbenzene	<9 µg/kg	TM116	<180	#	20700	#	<18	#
sec-Butylbenzene	<10 µg/kg	TM116	<200	M	1200	M	<20	#
4-Isopropyltoluene	<11 µg/kg	TM116	<220	M	1690	M	<22	#
1.3-Dichlorobenzene	<6 µg/kg	TM116	<120	M	<120	M	<12	#
1.4-Dichlorobenzene	<5 µg/kg	TM116	<100	M	<100	M	<10	#
n-Butylbenzene	<10 µg/kg	TM116	<200	M	<200	M	<20	#
1.2-Dichlorobenzene	<12 µg/kg	TM116	<240	M	<240	M	<24	#
1.2-Dibromo-3-chloropropene	<14 µg/kg	TM116	<280	M	<280	M	<28	#
Tert-amyl methyl ether	<15 µg/kg	TM116	<300		<300		<30	
1.2.4-Trichlorobenzene	<6 µg/kg	TM116	<120	#	<120	#	<12	#
Hexachlorobutadiene	<12 µg/kg	TM116	<240		<240		<24	
Naphthalene	<13 µg/kg	TM116	<260	M	2510	M	<26	#
1.2.3-Trichlorobenzene	<6 µg/kg	TM116	<120	M	<120	M	<12	#



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

VOC MS (S)

Results Legend			Customer Sample R		DVP67	DVP67	DVP67	DVP68	DVP68	DVP68
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference			1.20	1.70	2.10	0.50	1.20	1.50
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
S	Non-conforming work.				-	-	-	-	-	-
aq	Aqueous / settled sample.				21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011
diss.filt	Dissolved / filtered sample.				110523-21	110523-21	110523-21	110523-21	110523-21	110523-21
tot.unfilt	Total / unfiltered sample.				3514362	3514363	3514364	3514367	3514368	3514370
*	Subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F)	Trigger breach confirmed									
Component	LOD/Units	Method								
Dibromofluoromethane**	%	TM116			103	103	99.4	68.8	116	35.5
					\$	\$	\$	\$	\$	\$
Toluene-d8**	%	TM116			96	107	90.9	110	95.2	92.1
					\$	\$	\$	\$	\$	\$
4-Bromofluorobenzene**	%	TM116			127	134	148	136	125	113
					\$	\$	\$	\$	\$	\$
Dichlorodifluoromethane	<4 µg/kg	TM116			<80	<80	<4	<8	<80	<8
					\$	\$	\$	\$	\$	\$
Chloromethane	<7 µg/kg	TM116			<140	<140	<7	<14	<140	<14
					\$	\$	\$	\$	\$	\$
Vinyl Chloride	<10 µg/kg	TM116			<200	<200	39.7	<20	<200	<20
					\$	\$	\$	\$	\$	\$
Bromomethane	<13 µg/kg	TM116			<260	<260	<13	<26	<260	<26
					\$	\$	\$	\$	\$	\$
Chloroethane	<14 µg/kg	TM116			<280	<280	<14	<28	<280	<28
					\$	\$	\$	\$	\$	\$
Trichlorofluoromethane	<6 µg/kg	TM116			<120	<120	<6	22.5	<120	<12
					\$	\$	\$	\$	\$	\$
1,1-Dichloroethene	<10 µg/kg	TM116			<200	<200	20.1	<20	<200	<20
					\$	\$	\$	\$	\$	\$
Carbon Disulphide	<7 µg/kg	TM116			613	506	22	61.2	707	114
					\$	\$	\$	\$	\$	\$
Dichloromethane	<10 µg/kg	TM116			443	241	12600	1240	626	58.3
					\$	\$	\$	\$	\$	\$
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116			<220	<220	<11	<22	<220	<22
					\$	\$	\$	\$	\$	\$
trans-1-2-Dichloroethene	<11 µg/kg	TM116			<220	<220	<11	<22	<220	<22
					\$	\$	\$	\$	\$	\$
1,1-Dichloroethane	<8 µg/kg	TM116			<160	<160	<8	<16	<160	<16
					\$	\$	\$	\$	\$	\$
cis-1-2-Dichloroethene	<5 µg/kg	TM116			<100	<100	<5	<10	<100	<10
					\$	\$	\$	\$	\$	\$
2,2-Dichloropropane	<12 µg/kg	TM116			<240	<240	<12	<24	<240	<24
					\$	\$	\$	\$	\$	\$
Bromochloromethane	<14 µg/kg	TM116			<280	<280	<14	<28	<280	<28
					\$	\$	\$	\$	\$	\$
Chloroform	<8 µg/kg	TM116			<160	<160	<8	<16	<160	<16
					\$	\$	\$	\$	\$	\$
1,1,1-Trichloroethane	<7 µg/kg	TM116			<140	<140	<7	<14	<140	<14
					\$	\$	\$	\$	\$	\$
1,1-Dichloropropene	<11 µg/kg	TM116			<220	<220	<11	<22	<220	<22
					\$	\$	\$	\$	\$	\$
Carbontetrachloride	<14 µg/kg	TM116			<280	<280	<14	<28	<280	<28
					\$	\$	\$	\$	\$	\$
1,2-Dichloroethane	<5 µg/kg	TM116			1620	446	90500	1170	2190	168
					\$	\$	\$	\$	\$	\$
Benzene	<9 µg/kg	TM116			<180	<180	<9	<18	<180	<18
					\$	\$	\$	\$	\$	\$
Trichloroethene	<9 µg/kg	TM116			<180	<180	22	<18	<180	<18
					\$	\$	\$	\$	\$	\$
1,2-Dichloropropane	<12 µg/kg	TM116			<240	<240	<12	<24	<240	<24
					\$	\$	\$	\$	\$	\$
Dibromomethane	<9 µg/kg	TM116			<180	<180	<9	<18	<180	<18
					\$	\$	\$	\$	\$	\$
Bromodichloromethane	<7 µg/kg	TM116			<140	<140	<7	<14	<140	<14
					\$	\$	\$	\$	\$	\$
cis-1-3-Dichloropropene	<14 µg/kg	TM116			<280	<280	<14	<28	<280	<28
					\$	\$	\$	\$	\$	\$
Toluene	<5 µg/kg	TM116			<100	<100	36.3	<10	135	27.7
					\$	\$	\$	\$	\$	\$
trans-1-3-Dichloropropene	<14 µg/kg	TM116			<280	<280	<14	<28	<280	<28
					\$	\$	\$	\$	\$	\$
1,1,2-Trichloroethane	<10 µg/kg	TM116			<200	<200	<10	<20	<200	<20
					\$	\$	\$	\$	\$	\$
1,3-Dichloropropane	<7 µg/kg	TM116			<140	<140	<7	<14	<140	<14
					\$	\$	\$	\$	\$	\$
Tetrachloroethene	<5 µg/kg	TM116			<100	<100	<5	<10	<100	101
					\$	\$	\$	\$	\$	\$
Dibromochloromethane	<13 µg/kg	TM116			<260	<260	<13	<26	<260	<26
					\$	\$	\$	\$	\$	\$



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

VOC MS (S)

Results Legend		Customer Sample R	DVP67	DVP67	DVP67	DVP68	DVP68	DVP68
#	ISO17025 accredited.							
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	1.20 Soil/Solid - 21/05/2011 110523-21 3514362	1.70 Soil/Solid - 21/05/2011 110523-21 3514363	2.10 Soil/Solid - 21/05/2011 110523-21 3514364	0.50 Soil/Solid - 21/05/2011 110523-21 3514367	1.20 Soil/Solid - 21/05/2011 110523-21 3514368	1.50 Soil/Solid - 21/05/2011 110523-21 3514370
S	Non-conforming work.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
Component	LOD/Units	Method						
1,2-Dibromoethane	<12 µg/kg	TM116	<240 \$	<240 \$	<12 \$	<24 \$	<240 \$	<24 \$
Chlorobenzene	<5 µg/kg	TM116	<100 \$	<100 \$	<5 \$	<10 \$	<100 \$	<10 \$
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116	<200 \$	<200 \$	<10 \$	<20 \$	<200 \$	<20 \$
Ethylbenzene	<4 µg/kg	TM116	<80 \$	104 \$	12.9 \$	<8 \$	92.9 \$	73.6 \$
p/m-Xylene	<14 µg/kg	TM116	<280 \$	<280 \$	30.6 \$	47.2 \$	<280 \$	102 \$
o-Xylene	<10 µg/kg	TM116	<200 \$	<200 \$	<10 \$	<20 \$	<200 \$	55.4 \$
Styrene	<10 µg/kg	TM116	<200 \$	<200 \$	<10 \$	<20 \$	<200 \$	<20 \$
Bromoform	<10 µg/kg	TM116	<200 \$	<200 \$	<10 \$	<20 \$	<200 \$	<20 \$
Isopropylbenzene	<5 µg/kg	TM116	<100 \$	<100 \$	<5 \$	<10 \$	<100 \$	<10 \$
1,1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116	<200 \$	<200 \$	<10 \$	<20 \$	<200 \$	<20 \$
1,2,3-Trichloropropane	<17 µg/kg	TM116	<340 \$	<340 \$	<17 \$	<34 \$	<340 \$	<34 \$
Bromobenzene	<10 µg/kg	TM116	<200 \$	<200 \$	<10 \$	<20 \$	<200 \$	<20 \$
Propylbenzene	<11 µg/kg	TM116	<220 \$	<220 \$	<11 \$	<22 \$	<220 \$	50.2 \$
2-Chlorotoluene	<9 µg/kg	TM116	<180 \$	<180 \$	<9 \$	<18 \$	<180 \$	<18 \$
1,3,5-Trimethylbenzene	<8 µg/kg	TM116	<160 \$	<160 \$	9.89 \$	41 \$	<160 \$	112 \$
4-Chlorotoluene	<12 µg/kg	TM116	<240 \$	<240 \$	<12 \$	<24 \$	<240 \$	<24 \$
tert-Butylbenzene	<12 µg/kg	TM116	<240 \$	<240 \$	<12 \$	<24 \$	<240 \$	<24 \$
1,2,4-Trimethylbenzene	<9 µg/kg	TM116	<180 \$	411 \$	<9 \$	213 \$	554 \$	557 \$
sec-Butylbenzene	<10 µg/kg	TM116	<200 \$	<200 \$	<10 \$	<20 \$	<200 \$	65.5 \$
4-Isopropyltoluene	<11 µg/kg	TM116	<220 \$	<220 \$	<11 \$	<22 \$	<220 \$	77.9 \$
1,3-Dichlorobenzene	<6 µg/kg	TM116	<120 \$	<120 \$	<6 \$	<12 \$	<120 \$	<12 \$
1,4-Dichlorobenzene	<5 µg/kg	TM116	<100 \$	<100 \$	<5 \$	<10 \$	<100 \$	<10 \$
n-Butylbenzene	<10 µg/kg	TM116	<200 \$	<200 \$	<10 \$	<20 \$	<200 \$	<20 \$
1,2-Dichlorobenzene	<12 µg/kg	TM116	<240 \$	<240 \$	<12 \$	<24 \$	<240 \$	<24 \$
1,2-Dibromo-3-chloropropene	<14 µg/kg	TM116	<280 \$	<280 \$	<14 \$	<28 \$	<280 \$	<28 \$
Tert-amyl methyl ether	<15 µg/kg	TM116	<300 \$	<300 \$	<15 \$	<30 \$	<300 \$	<30 \$
1,2,4-Trichlorobenzene	<6 µg/kg	TM116	<120 \$	<120 \$	<6 \$	<12 \$	<120 \$	<12 \$
Hexachlorobutadiene	<12 µg/kg	TM116	<240 \$	<240 \$	<12 \$	<24 \$	<240 \$	<24 \$
Naphthalene	<13 µg/kg	TM116	<260 \$	<260 \$	<13 \$	<26 \$	<260 \$	242 \$
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<120 \$	<120 \$	<6 \$	<12 \$	<120 \$	<12 \$



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

VOC MS (S)

Results Legend			Customer Sample R		DVP68	DVP69	DVP70	DVP71	DVP74	
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference		2.00	1.50	0.80	0.40	0.20	
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	
S	Non-conforming work.				-	-	-	-	-	
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
*	Subcontracted test.				21/05/2011	21/05/2011	21/05/2011	21/05/2011	21/05/2011	
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery				110523-21	110523-21	110523-21	110523-21	110523-21	
(F)	Trigger breach confirmed				3514372	3514377	3514382	3514383	3514395	
Component	LOD/Units	Method								
Dibromofluoromethane**	%	TM116			88.1	113	106	103	56.6	
					\$		\$			
Toluene-d8**	%	TM116			96.7	109	99.5	114	109	
					\$		\$			
4-Bromofluorobenzene**	%	TM116			116	120	117	105	168	
					\$		\$			
Dichlorodifluoromethane	<4 µg/kg	TM116			<8	<4	<80	<80	<4	
					\$	M	\$	M	M	
Chloromethane	<7 µg/kg	TM116			<14	<7	<140	<140	<7	
					\$	#	\$	#	#	
Vinyl Chloride	<10 µg/kg	TM116			<20	<10	<200	<200	<10	
					\$	#	\$	#	#	
Bromomethane	<13 µg/kg	TM116			<26	<13	<260	<260	<13	
					\$	M	\$	M	M	
Chloroethane	<14 µg/kg	TM116			<28	<14	<280	<280	<14	
					\$	M	\$	M	M	
Trichlorofluoromethane	<6 µg/kg	TM116			<12	<6	<120	<120	<6	
					\$	M	\$	M	M	
1,1-Dichloroethene	<10 µg/kg	TM116			<20	<10	<200	<200	<10	
					\$	#	\$	#	#	
Carbon Disulphide	<7 µg/kg	TM116			138	12.7	<140	<140	27.4	
					\$	M	\$	M	M	
Dichloromethane	<10 µg/kg	TM116			664	324	466	<200	18	
					\$	#	\$	#	#	
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116			<22	<11	<220	<220	<11	
					\$	M	\$	M	M	
trans-1-2-Dichloroethene	<11 µg/kg	TM116			<22	<11	<220	<220	<11	
					\$	M	\$	M	M	
1,1-Dichloroethane	<8 µg/kg	TM116			<16	<8	<160	<160	<8	
					\$	M	\$	M	M	
cis-1-2-Dichloroethene	<5 µg/kg	TM116			<10	<5	<100	<100	<5	
					\$	M	\$	M	M	
2,2-Dichloropropane	<12 µg/kg	TM116			<24	<12	<240	<240	<12	
					\$	M	\$	M	M	
Bromochloromethane	<14 µg/kg	TM116			<28	<14	<280	<280	<14	
					\$	M	\$	M	M	
Chloroform	<8 µg/kg	TM116			<16	<8	<160	<160	<8	
					\$	M	\$	M	M	
1,1,1-Trichloroethane	<7 µg/kg	TM116			<14	<7	<140	<140	14.3	
					\$	M	\$	M	M	
1,1-Dichloropropene	<11 µg/kg	TM116			<22	<11	<220	<220	<11	
					\$	M	\$	M	M	
Carbontetrachloride	<14 µg/kg	TM116			<28	<14	<280	<280	<14	
					\$	M	\$	M	M	
1,2-Dichloroethane	<5 µg/kg	TM116			2820	516	1160	<100	54.3	
					\$	M	\$	M	M	
Benzene	<9 µg/kg	TM116			53.1	<9	<180	<180	<9	
					\$	M	\$	M	M	
Trichloroethene	<9 µg/kg	TM116			<18	<9	<180	<180	<9	
					\$	M	\$	M	M	
1,2-Dichloropropane	<12 µg/kg	TM116			<24	<12	<240	<240	<12	
					\$	M	\$	M	M	
Dibromomethane	<9 µg/kg	TM116			<18	<9	<180	<180	<9	
					\$	M	\$	M	M	
Bromodichloromethane	<7 µg/kg	TM116			<14	<7	<140	<140	<7	
					\$	M	\$	M	M	
cis-1-3-Dichloropropene	<14 µg/kg	TM116			<28	<14	<280	<280	<14	
					\$	M	\$	M	M	
Toluene	<5 µg/kg	TM116			<10	<5	<100	<100	10.1	
					\$	M	\$	M	M	
trans-1-3-Dichloropropene	<14 µg/kg	TM116			<28	<14	<280	<280	<14	
					\$		\$			
1,1,2-Trichloroethane	<10 µg/kg	TM116			<20	<10	<200	<200	<10	
					\$	M	\$	M	M	
1,3-Dichloropropane	<7 µg/kg	TM116			<14	<7	<140	<140	<7	
					\$	#	\$	#	#	
Tetrachloroethene	<5 µg/kg	TM116			36.7	<5	<100	<100	<5	
					\$	M	\$	M	M	
Dibromochloromethane	<13 µg/kg	TM116			<26	<13	<260	<260	<13	
					\$	M	\$	M	M	



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

VOC MS (S)

Results Legend		Customer Sample R	DVP68	DVP69	DVP70	DVP71	DVP74	
#	ISO17025 accredited.							
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	2.00 Soil/Solid - 21/05/2011 110523-21 3514372	1.50 Soil/Solid - 21/05/2011 110523-21 3514377	0.80 Soil/Solid - 21/05/2011 110523-21 3514382	0.40 Soil/Solid - 21/05/2011 110523-21 3514383	0.20 Soil/Solid - 21/05/2011 110523-21 3514395	
S	Non-conforming work.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
Component	LOD/Units	Method						
1,2-Dibromoethane	<12 µg/kg	TM116	<24 \$	<12 M	<240 \$	<240 M	<12 M	
Chlorobenzene	<5 µg/kg	TM116	<10 \$	<5 M	<100 \$	<100 M	<5 M	
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116	<20 \$	<10 M	<200 \$	<200 M	<10 M	
Ethylbenzene	<4 µg/kg	TM116	25 \$	<4 M	<80 \$	<80 M	7.28 M	
p/m-Xylene	<14 µg/kg	TM116	49.5 \$	<14 #	<280 \$	<280 #	<14 #	
o-Xylene	<10 µg/kg	TM116	<20 \$	<10 M	<200 \$	<200 M	<10 M	
Styrene	<10 µg/kg	TM116	<20 \$	<10 M	<200 \$	<200 M	<10 M	
Bromoform	<10 µg/kg	TM116	<20 \$	<10 M	<200 \$	<200 M	<10 M	
Isopropylbenzene	<5 µg/kg	TM116	<10 \$	<5 M	<100 \$	<100 M	<5 M	
1,1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116	<20 \$	<10 #	<200 \$	<200 #	<10 #	
1,2,3-Trichloropropane	<17 µg/kg	TM116	<34 \$	<17 M	<340 \$	<340 M	<17 M	
Bromobenzene	<10 µg/kg	TM116	<20 \$	<10 M	<200 \$	<200 M	<10 M	
Propylbenzene	<11 µg/kg	TM116	<22 \$	<11 M	<220 \$	<220 M	<11 M	
2-Chlorotoluene	<9 µg/kg	TM116	<18 \$	<9 M	<180 \$	<180 M	<9 M	
1,3,5-Trimethylbenzene	<8 µg/kg	TM116	<16 \$	<8 #	<160 \$	<160 #	<8 #	
4-Chlorotoluene	<12 µg/kg	TM116	<24 \$	<12 M	<240 \$	<240 M	<12 M	
tert-Butylbenzene	<12 µg/kg	TM116	<24 \$	<12 #	<240 \$	<240 #	<12 #	
1,2,4-Trimethylbenzene	<9 µg/kg	TM116	88.4 \$	<9 #	<180 \$	<180 #	25.2 #	
sec-Butylbenzene	<10 µg/kg	TM116	<20 \$	<10 M	<200 \$	<200 M	<10 M	
4-Isopropyltoluene	<11 µg/kg	TM116	<22 \$	<11 M	<220 \$	<220 M	<11 M	
1,3-Dichlorobenzene	<6 µg/kg	TM116	<12 \$	<6 M	<120 \$	<120 M	<6 M	
1,4-Dichlorobenzene	<5 µg/kg	TM116	<10 \$	<5 M	<100 \$	<100 M	<5 M	
n-Butylbenzene	<10 µg/kg	TM116	<20 \$	<10 M	<200 \$	<200 M	<10 M	
1,2-Dichlorobenzene	<12 µg/kg	TM116	<24 \$	<12 M	<240 \$	<240 M	<12 M	
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116	<28 \$	<14 M	<280 \$	<280 M	<14 M	
Tert-amyl methyl ether	<15 µg/kg	TM116	<30 \$	<15 \$	<300 \$	<300 \$	<15 \$	
1,2,4-Trichlorobenzene	<6 µg/kg	TM116	<12 \$	<6 #	<120 \$	<120 #	<6 #	
Hexachlorobutadiene	<12 µg/kg	TM116	<24 \$	<12 \$	<240 \$	<240 \$	<12 \$	
Naphthalene	<13 µg/kg	TM116	<26 \$	<13 M	<260 \$	<260 M	<13 M	
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<12 \$	<6 M	<120 \$	<120 M	<6 M	



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

VOC MS (W)

Results Legend		Customer Sample R	DVP63	DVP66	DVP67			
#	ISO17025 accredited.		1.80	1.20	1.70			
M	mCERTS accredited.		Saline A	Saline A	Saline A			
S	Non-conforming work.		-	-	-			
aq	Aqueous / settled sample.		-	-	-			
diss.filt	Dissolved / filtered sample.		21/05/2011	21/05/2011	21/05/2011			
tot.unfilt	Total / unfiltered sample.		110523-21	110523-21	110523-21			
*	Subcontracted test.		3514347	3514360	3514366			
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM208	106	60.8	106			
			\$	\$	\$			
Toluene-d8**	%	TM208	75.4	99.5	72.8			
			\$	\$	\$			
4-Bromofluorobenzene**	%	TM208	129	97.8	62.8			
			\$	\$	\$			
Dichlorodifluoromethane	<7 µg/l	TM208	<7	<7	<7			
			\$	\$	\$			
Chloromethane	<9 µg/l	TM208	<9	<9	<9			
			\$	\$	\$			
Vinyl chloride	<1.2 µg/l	TM208	<1.2	173	449			
			\$	\$	\$			
Bromomethane	<2 µg/l	TM208	<2	<2	<2			
			\$	\$	\$			
Chloroethane	<2.5 µg/l	TM208	<2.5	<2.5	<2.5			
			\$	\$	\$			
Trichlorofluoromethane	<1.3 µg/l	TM208	<1.3	<1.3	<1.3			
			\$	\$	\$			
1,1-Dichloroethene	<1.2 µg/l	TM208	<1.2	6.38	13.6			
			\$	\$	\$			
Carbon disulphide	<1.3 µg/l	TM208	<1.3	8.7	8.43			
			\$	\$	\$			
Dichloromethane	<3.7 µg/l	TM208	<3.7	<3.7	155000			
			\$	\$	\$			
Methyl tertiary butyl ether (MTBE)	<1.6 µg/l	TM208	<1.6	<1.6	<1.6			
			\$	\$	\$			
trans-1,2-Dichloroethene	<1.9 µg/l	TM208	<1.9	2.29	3.24			
			\$	\$	\$			
1,1-Dichloroethane	<1.2 µg/l	TM208	<1.2	2.33	3.22			
			\$	\$	\$			
cis-1,2-Dichloroethene	<2.3 µg/l	TM208	<2.3	<2.3	<2.3			
			\$	\$	\$			
2,2-Dichloropropane	<3.8 µg/l	TM208	<3.8	<3.8	<3.8			
			\$	\$	\$			
Bromochloromethane	<1.9 µg/l	TM208	<1.9	<1.9	<1.9			
			\$	\$	\$			
Chloroform	<1.8 µg/l	TM208	<1.8	<1.8	<1.8			
			\$	\$	\$			
1,1,1-Trichloroethane	<1.3 µg/l	TM208	<1.3	<1.3	<1.3			
			\$	\$	\$			
1,1-Dichloropropene	<1.3 µg/l	TM208	<1.3	<1.3	<1.3			
			\$	\$	\$			
Carbontetrachloride	<1.4 µg/l	TM208	<1.4	<1.4	<1.4			
			\$	\$	\$			
1,2-Dichloroethane	<3.3 µg/l	TM208	<3.3	14900	513000			
			\$	\$	\$			
Benzene	<1.3 µg/l	TM208	7.96	<1.3	<1.3			
			\$	\$	\$			
Trichloroethene	<2.5 µg/l	TM208	<2.5	4.27	17.5			
			\$	\$	\$			
1,2-Dichloropropane	<3 µg/l	TM208	<3	<3	<3			
			\$	\$	\$			
Dibromomethane	<2.7 µg/l	TM208	<2.7	<2.7	<2.7			
			\$	\$	\$			
Bromodichloromethane	<0.9 µg/l	TM208	<0.9	<0.9	<0.9			
			\$	\$	\$			
cis-1,3-Dichloropropene	<1.9 µg/l	TM208	<1.9	<1.9	<1.9			
			\$	\$	\$			
Toluene	<1.4 µg/l	TM208	1.87	1.64	7.7			
			\$	\$	\$			
trans-1,3-Dichloropropene	<3.5 µg/l	TM208	<3.5	<3.5	<3.5			
			\$	\$	\$			
1,1,2-Trichloroethane	<2.2 µg/l	TM208	<2.2	<2.2	<2.2			
			\$	\$	\$			
1,3-Dichloropropane	<2.2 µg/l	TM208	<2.2	<2.2	<2.2			
			\$	\$	\$			
Tetrachloroethene	<1.5 µg/l	TM208	<1.5	<1.5	9.18			
			\$	\$	\$			
Dibromochloromethane	<1.7 µg/l	TM208	<1.7	<1.7	<1.7			
			\$	\$	\$			



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

VOC MS (W)

Results Legend			Customer Sample R Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	DVP63 1.80 Saline A - 21/05/2011 110523-21 3514347	DVP66 1.20 Saline A - 21/05/2011 110523-21 3514360	DVP67 1.70 Saline A - 21/05/2011 110523-21 3514366			
#	ISO17025 accredited.								
M	mCERTS accredited.								
S	Non-conforming work.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
Component	LOD/Units	Method							
1,2-Dibromoethane	<2.3 µg/l	TM208	<2.3 \$	<2.3 \$	<2.3 \$				
Chlorobenzene	<3.5 µg/l	TM208	<3.5 \$	<3.5 \$	<3.5 \$				
1,1,1,2-Tetrachloroethane	<1.3 µg/l	TM208	<1.3 \$	<1.3 \$	<1.3 \$				
Ethylbenzene	<2.5 µg/l	TM208	<2.5 \$	<2.5 \$	7.36 \$				
m,p-Xylene	<2.5 µg/l	TM208	75.7 \$	<2.5 \$	15.9 \$				
o-Xylene	<1.7 µg/l	TM208	29.3 \$	1.7 \$	8.65 \$				
Styrene	<1.2 µg/l	TM208	<1.2 \$	<1.2 \$	<1.2 \$				
Bromoform	<3 µg/l	TM208	<3 \$	<3 \$	<3 \$				
Isopropylbenzene	<1.4 µg/l	TM208	71 \$	<1.4 \$	1.48 \$				
1,1,2,2-Tetrachloroethane	<5.2 µg/l	TM208	<5.2 \$	<5.2 \$	<5.2 \$				
1,2,3-Trichloropropane	<7.8 µg/l	TM208	<7.8 \$	<7.8 \$	<7.8 \$				
Bromobenzene	<2 µg/l	TM208	<2 \$	<2 \$	<2 \$				
Propylbenzene	<2.6 µg/l	TM208	31.4 \$	<2.6 \$	2.99 \$				
2-Chlorotoluene	<1.9 µg/l	TM208	<1.9 \$	<1.9 \$	<1.9 \$				
1,3,5-Trimethylbenzene	<1.8 µg/l	TM208	27.1 \$	<1.8 \$	6.22 \$				
4-Chlorotoluene	<1.9 µg/l	TM208	<1.9 \$	<1.9 \$	<1.9 \$				
tert-Butylbenzene	<2 µg/l	TM208	<2 \$	<2 \$	<2 \$				
1,2,4-Trimethylbenzene	<1.7 µg/l	TM208	431 \$	1.99 \$	11.7 \$				
sec-Butylbenzene	<1.7 µg/l	TM208	118 \$	<1.7 \$	<1.7 \$				
4-iso-Propyltoluene	<2.6 µg/l	TM208	28.6 \$	<2.6 \$	<2.6 \$				
1,3-Dichlorobenzene	<2.2 µg/l	TM208	<2.2 \$	<2.2 \$	<2.2 \$				
1,4-Dichlorobenzene	<2.7 µg/l	TM208	<2.7 \$	<2.7 \$	<2.7 \$				
n-Butylbenzene	<2 µg/l	TM208	<2 \$	<2 \$	<2 \$				
1,2-Dichlorobenzene	<3.7 µg/l	TM208	<3.7 \$	<3.7 \$	<3.7 \$				
1,2-Dibromo-3-chloropropene	<9.8 µg/l	TM208	<9.8 \$	<9.8 \$	<9.8 \$				
1,2,4-Trichlorobenzene	<2.3 µg/l	TM208	<2.3 \$	<2.3 \$	<2.3 \$				
Hexachlorobutadiene	<2.5 µg/l	TM208	<2.5 \$	<2.5 \$	<2.5 \$				
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208	<1 \$	<1 \$	<1 \$				
Naphthalene	<3.5 µg/l	TM208	45.7 \$	<3.5 \$	4.38 \$				
1,2,3-Trichlorobenzene	<3.1 µg/l	TM208	<3.1 \$	<3.1 \$	<3.1 \$				
1,3,5-Trichlorobenzene	<10 µg/l	TM208	<10 \$	<10 \$	<10 \$				



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Notification of Non-Conforming Work

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	1,2-Dichloroethane	Different weight /Aliquot taken
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Dichloromethane	Different weight /Aliquot taken
3514600	DVP59	2.50	SOLID	VOC MS (S)	1,1,2-Trichloro-1,2,2-Trifluoroethane (TIC)	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	1.1.1.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	1.1.1-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	1.1.2.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	1.1.2-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	1.1-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	1.1-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	1.1-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	1.2.3-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	1.2.3-Trichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	1.2.4-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	1.2.4-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	1.2-Dibromo-3-chloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	1.2-Dibromoethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	1.2-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	1.2-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	1.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	1.3.5-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	1.3-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	1.3-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	1.4-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	2.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	2-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	4-Bromofluorobenzene**	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3514600	DVP59	2.50	SOLID	VOC MS (S)	4-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	4-Isopropyltoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Benzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Bromobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Bromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Bromodichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Bromoform	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Bromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Carbon disulphide	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Carbontetrachloride	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Chlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Chloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Chloroform	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Chloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	cis-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	cis-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Dibromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Dibromofluoromethane**	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Dibromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Dichlorodifluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Dichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Dilution	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Ethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Hexachlorobutadiene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Isopropylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3514600	DVP59	2.50	SOLID	VOC MS (S)	LCS Reagent	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Methyl Tertiary Butyl Ether	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Naphthalene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	n-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	o-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	p/m-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Propylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	sec-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Styrene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Tert-amyl methyl ether	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	tert-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Tetrachloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	TIC Instructions	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Toluene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Toluene-d8**	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	trans-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	trans-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Trichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	Vinyl Chloride	Volatile Analysis performed on vessel with headspace due testing requirement
3514600	DVP59	2.50	SOLID	VOC MS (S)	VOC TIC	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	1,1,2-Trichloro-1,2,2-Trifluoroethane (TIC)	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	1.1.1.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	1.1.1-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3514811	DVP62	0.20	SOLID	VOC MS (S)	1.1.2.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	1.1.2-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	1.1-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	1.1-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	1.1-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	1.2.3-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	1.2.3-Trichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	1.2.4-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	1.2.4-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	1.2-Dibromo-3-chloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	1.2-Dibromoethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	1.2-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	1.2-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	1.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	1.3.5-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	1.3-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	1.3-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	1.4-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	2.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	2-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	4-Bromofluorobenzene**	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	4-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	4-Isopropyltoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Benzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Bromobenzene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3514811	DVP62	0.20	SOLID	VOC MS (S)	Bromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Bromodichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Bromoform	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Bromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Carbon disulphide	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Carbontetrachloride	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Chlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Chloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Chloroform	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Chloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	cis-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	cis-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Dibromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Dibromofluoromethane**	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Dibromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Dichlorodifluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Dichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Dilution	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Ethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Hexachlorobutadiene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Isopropylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	LCS Reagent	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Methyl Tertiary Butyl Ether	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Naphthalene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	n-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3514811	DVP62	0.20	SOLID	VOC MS (S)	o-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	p/m-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Propylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	sec-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Styrene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Tert-amyl methyl ether	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	tert-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Tetrachloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	TIC Instructions	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Toluene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Toluene-d8**	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	trans-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	trans-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Trichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	Vinyl Chloride	Volatile Analysis performed on vessel with headspace due testing requirement
3514811	DVP62	0.20	SOLID	VOC MS (S)	VOC TIC	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	1,1,1,2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	1,1,1-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	1,1,2,2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	1,1,2-Trichloro-1,2,2-trifluoroethane (TIC)	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	1,1,2-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	1,1-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	1,1-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	1,1-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	1,2,3-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	1,2,3-Trichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	1,2,4-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	1,2,4-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	1,2-Dibromo-3-chloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	1,2-Dibromoethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	1,2-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	1,2-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	1,2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	1,3,5-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	1,3,5-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	1,3-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	1,3-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	1,4-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	2,2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	2-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	4-Bromofluorobenzene**	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	4-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	4-iso-Propyltoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Benzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Bromobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Bromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Bromodichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Bromoform	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Bromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Carbon disulphide	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Carbontetrachloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Chlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Chloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Chloroform	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Chloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	cis-1,2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	cis-1,3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Dibromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Dibromofluoromethane**	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Dibromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Dichlorodifluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Dichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Dilution	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Ethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Hexachlorobutadiene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Isopropylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	LCS Reagent	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	m,p-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Methyl tertiary butyl ether (MTBE)	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Multiplier	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Naphthalene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	n-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	o-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Propylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	sec-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Styrene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Sum of detected Xylenes	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	tert-Amyl methyl ether (TAME)	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	tert-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Tetrachloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	TIC Instructions	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Toluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Toluene-d8**	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	trans-1,2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	trans-1,3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Trichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	Vinyl chloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515102	DVP63	1.80	SALINE_A	VOC MS (W)	VOC TIC	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	Aliphatics >C10-C12	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	Aliphatics >C5-C6	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	Aliphatics >C6-C8	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	Aliphatics >C8-C10	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	Aromatics >EC10-EC12	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	Aromatics >EC5-EC7	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	Aromatics >EC7-EC8	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	Aromatics >EC8-EC10	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	Benzene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	EPH (C6-C10)	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	EPH (C6-C10) mg/l	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	Ethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	GRO >C10-C12	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	GRO >C5-C10	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	GRO >C5-C12	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	GRO >C5-C6	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	GRO >C6-C7	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	GRO >C6-C8	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	GRO >C7-C8	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	GRO >C8-C10	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	GRO QC	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	GRO Surrogate % recovery**	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	m,p-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	Methyl tertiary butyl ether (MTBE)	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	o-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	QC raw	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	Sum of detected BTEX	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	Sum of detected Xylenes	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	tert-Amyl methyl ether (TAME)	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	Toluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	Total Aliphatics >C5-C12	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	Total Aromatics >EC5-EC12	Volatile Analysis performed on vessel with headspace due testing requirement
3515103	DVP63	1.80	SALINE_A	GRO by GC-FID (W)	Trace	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	1,1,2-Trichloro-1,2,2-Trifluoroethane (TIC)	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515134	DVP64	0.50	SOLID	VOC MS (S)	1.1.1.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	1.1.1-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	1.1.2.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	1.1.2-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	1.1-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	1.1-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	1.1-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	1.2.3-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	1.2.3-Trichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	1.2.4-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	1.2.4-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	1.2-Dibromo-3-chloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	1.2-Dibromoethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	1.2-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	1.2-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	1.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	1.3.5-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	1.3-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	1.3-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	1.4-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	2.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	2-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	4-Bromofluorobenzene**	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	4-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	4-Isopropyltoluene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515134	DVP64	0.50	SOLID	VOC MS (S)	Benzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Bromobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Bromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Bromodichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Bromoform	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Bromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Carbon disulphide	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Carbontetrachloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Chlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Chloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Chloroform	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Chloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	cis-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	cis-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Dibromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Dibromofluoromethane**	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Dibromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Dichlorodifluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Dichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Dilution	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Ethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Hexachlorobutadiene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Isopropylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	LCS Reagent	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Methyl Tertiary Butyl Ether	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515134	DVP64	0.50	SOLID	VOC MS (S)	Naphthalene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	n-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	o-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	p/m-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Propylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	sec-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Styrene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Tert-amyl methyl ether	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	tert-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Tetrachloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	TIC Instructions	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Toluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Toluene-d8**	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	trans-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	trans-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Trichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	Vinyl Chloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515134	DVP64	0.50	SOLID	VOC MS (S)	VOC TIC	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	1,1,2-Trichloro-1,2,2-Trifluoroethane (TIC)	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	1.1.1.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	1.1.1-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	1.1.2.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	1.1.2-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515347	DVP64	1.30	SOLID	VOC MS (S)	1.1-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	1.1-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	1.1-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	1.2.3-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	1.2.3-Trichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	1.2.4-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	1.2.4-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	1.2-Dibromo-3-chloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	1.2-Dibromoethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	1.2-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	1.2-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	1.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	1.3.5-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	1.3-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	1.3-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	1.4-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	2.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	2-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	4-Bromofluorobenzene**	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	4-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	4-Isopropyltoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Benzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Bromobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Bromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Bromodichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515347	DVP64	1.30	SOLID	VOC MS (S)	Bromoform	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Bromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Carbon Disulphide	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Carbontetrachloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Chlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Chloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Chloroform	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Chloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	cis-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	cis-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Dibromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Dibromofluoromethane**	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Dibromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Dichlorodifluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Dichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Dilution	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Ethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Hexachlorobutadiene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Isopropylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	LCS Reagent	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Methyl Tertiary Butyl Ether	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Naphthalene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	n-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	o-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	p/m-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515347	DVP64	1.30	SOLID	VOC MS (S)	Propylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	sec-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Styrene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Tert-amyl methyl ether	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	tert-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Tetrachloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	TIC Instructions	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Toluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Toluene-d8**	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	trans-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	trans-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Trichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	Vinyl Chloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515347	DVP64	1.30	SOLID	VOC MS (S)	VOC TIC	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	1,1,1,2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	1,1,1-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	1,1,2,2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	1,1,2-Trichloro-1,2,2-trifluoroethane (TIC)	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	1,1,2-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	1,1-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	1,1-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	1,1-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	1,2,3-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	1,2,3-Trichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	1,2,4-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	1,2,4-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	1,2-Dibromo-3-chloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	1,2-Dibromoethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	1,2-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	1,2-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	1,2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	1,3,5-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	1,3,5-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	1,3-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	1,3-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	1,4-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	2,2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	2-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	4-Bromofluorobenzene**	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	4-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	4-iso-Propyltoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Benzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Bromobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Bromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Bromodichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Bromoform	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Bromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Carbon disulphide	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Carbontetrachloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Chlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Chloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Chloroform	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Chloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	cis-1,2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	cis-1,3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Dibromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Dibromofluoromethane**	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Dibromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Dichlorodifluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Dichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Dilution	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Ethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Hexachlorobutadiene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Isopropylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	LCS Reagent	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	m,p-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Methyl tertiary butyl ether (MTBE)	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Multiplier	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Naphthalene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	n-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	o-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Propylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	sec-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Styrene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Sum of detected Xylenes	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	tert-Amyl methyl ether (TAME)	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	tert-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Tetrachloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	TIC Instructions	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Toluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Toluene-d8**	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	trans-1,2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	trans-1,3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Trichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	Vinyl chloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515537	DVP66	1.20	SALINE_A	VOC MS (W)	VOC TIC	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	1,1,2-Trichloro-1,2,2-Trifluoroethane (TIC)	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	1.1.1.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	1.1.1-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	1.1.2.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	1.1.2-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	1.1-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	1.1-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	1.1-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	1.2.3-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	1.2.3-Trichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	1.2.4-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515551	DVP67	0.50	SOLID	VOC MS (S)	1.2.4-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	1.2-Dibromo-3-chloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	1.2-Dibromoethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	1.2-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	1.2-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	1.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	1.3.5-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	1.3-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	1.3-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	1.4-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	2.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	2-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	4-Bromofluorobenzene**	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	4-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	4-Isopropyltoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Benzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Bromobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Bromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Bromodichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Bromoform	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Bromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Carbon disulphide	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Carbontetrachloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Chlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Chloroethane	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515551	DVP67	0.50	SOLID	VOC MS (S)	Chloroform	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Chloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	cis-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	cis-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Dibromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Dibromofluoromethane**	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Dibromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Dichlorodifluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Dichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Dilution	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Ethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Hexachlorobutadiene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Isopropylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	LCS Reagent	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Methyl Tertiary Butyl Ether	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Naphthalene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	n-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	o-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	p/m-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Propylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	sec-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Styrene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Tert-amyl methyl ether	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	tert-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Tetrachloroethene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
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Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515551	DVP67	0.50	SOLID	VOC MS (S)	TIC Instructions	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Toluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Toluene-d8**	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	trans-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	trans-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Trichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	Vinyl Chloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515551	DVP67	0.50	SOLID	VOC MS (S)	VOC TIC	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	1,1,2-Trichloro-1,2,2-Trifluoroethane (TIC)	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	1.1.1.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	1.1.1-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	1.1.2.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	1.1.2-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	1.1-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	1.1-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	1.1-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	1.2.3-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	1.2.3-Trichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	1.2.4-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	1.2.4-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	1.2-Dibromo-3-chloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	1.2-Dibromoethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	1.2-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515563	DVP67	1.20	SOLID	VOC MS (S)	1.2-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	1.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	1.3.5-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	1.3-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	1.3-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	1.4-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	2.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	2-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	4-Bromofluorobenzene**	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	4-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	4-Isopropyltoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Benzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Bromobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Bromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Bromodichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Bromoform	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Bromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Carbon disulphide	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Carbontetrachloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Chlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Chloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Chloroform	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Chloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	cis-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	cis-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515563	DVP67	1.20	SOLID	VOC MS (S)	Dibromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Dibromofluoromethane**	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Dibromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Dichlorodifluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Dichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Dilution	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Ethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Hexachlorobutadiene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Isopropylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	LCS Reagent	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Methyl Tertiary Butyl Ether	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Naphthalene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	n-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	o-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	p/m-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Propylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	sec-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Styrene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Tert-amyl methyl ether	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	tert-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Tetrachloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	TIC Instructions	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Toluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Toluene-d8**	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	trans-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515563	DVP67	1.20	SOLID	VOC MS (S)	trans-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Trichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	Vinyl Chloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515563	DVP67	1.20	SOLID	VOC MS (S)	VOC TIC	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	1,1,2-Trichloro-1,2,2-Trifluoroethane (TIC)	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	1.1.1.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	1.1.1-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	1.1.2.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	1.1.2-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	1.1-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	1.1-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	1.1-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	1.2.3-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	1.2.3-Trichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	1.2.4-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	1.2.4-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	1.2-Dibromo-3-chloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	1.2-Dibromoethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	1.2-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	1.2-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	1.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	1.3.5-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	1.3-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515574	DVP67	1.70	SOLID	VOC MS (S)	1.3-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	1.4-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	2.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	2-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	4-Bromofluorobenzene**	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	4-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	4-Isopropyltoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Benzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Bromobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Bromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Bromodichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Bromoform	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Bromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Carbon Disulphide	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Carbontetrachloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Chlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Chloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Chloroform	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Chloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	cis-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	cis-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Dibromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Dibromofluoromethane**	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Dibromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Dichlorodifluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515574	DVP67	1.70	SOLID	VOC MS (S)	Dichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Dilution	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Ethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Hexachlorobutadiene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Isopropylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	LCS Reagent	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Methyl Tertiary Butyl Ether	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Naphthalene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	n-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	o-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	p/m-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Propylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	sec-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Styrene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Tert-amyl methyl ether	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	tert-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Tetrachloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	TIC Instructions	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Toluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Toluene-d8**	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	trans-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	trans-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Trichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515574	DVP67	1.70	SOLID	VOC MS (S)	Vinyl Chloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515574	DVP67	1.70	SOLID	VOC MS (S)	VOC TIC	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	1,1,2-Trichloro-1,2,2-Trifluoroethane (TIC)	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	1.1.1.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	1.1.1-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	1.1.2.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	1.1.2-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	1.1-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	1.1-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	1.1-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	1.2.3-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	1.2.3-Trichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	1.2.4-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	1.2.4-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	1.2-Dibromo-3-chloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	1.2-Dibromoethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	1.2-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	1.2-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	1.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	1.3.5-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	1.3-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	1.3-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	1.4-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	2.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	2-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515581	DVP67	2.10	SOLID	VOC MS (S)	4-Bromofluorobenzene**	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	4-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	4-Isopropyltoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Benzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Bromobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Bromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Bromodichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Bromoform	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Bromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Carbon disulphide	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Carbontetrachloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Chlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Chloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Chloroform	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Chloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	cis-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	cis-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Dibromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Dibromofluoromethane**	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Dibromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Dichlorodifluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Dichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Dilution	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Ethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Hexachlorobutadiene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515581	DVP67	2.10	SOLID	VOC MS (S)	Isopropylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	LCS Reagent	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Methyl Tertiary Butyl Ether	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Naphthalene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	n-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	o-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	p/m-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Propylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	sec-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Styrene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Tert-amyl methyl ether	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	tert-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Tetrachloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	TIC Instructions	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Toluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Toluene-d8**	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	trans-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	trans-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Trichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	Vinyl Chloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515581	DVP67	2.10	SOLID	VOC MS (S)	VOC TIC	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	Aliphatics >C10-C12	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	Aliphatics >C5-C6	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	Aliphatics >C6-C8	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	Aliphatics >C8-C10	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	Aromatics >EC10-EC12	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	Aromatics >EC5-EC7	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	Aromatics >EC7-EC8	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	Aromatics >EC8-EC10	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	Benzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	EPH (C6-C10)	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	EPH (C6-C10) mg/l	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	Ethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	GRO >C10-C12	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	GRO >C5-C10	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	GRO >C5-C12	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	GRO >C5-C6	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	GRO >C6-C7	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	GRO >C6-C8	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	GRO >C7-C8	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	GRO >C8-C10	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	GRO QC	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	GRO Surrogate % recovery**	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	m,p-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	Methyl tertiary butyl ether (MTBE)	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	o-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	QC raw	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	Sum of detected BTEX	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	Sum of detected Xylenes	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	tert-Amyl methyl ether (TAME)	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	Toluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	Total Aliphatics >C5-C12	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	Total Aromatics >EC5-EC12	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	GRO by GC-FID (W)	Trace	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	1,1,1,2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	1,1,1-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	1,1,2,2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	1,1,2-Trichloro-1,2,2-trifluoroethane (TIC)	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	1,1,2-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	1,1-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	1,1-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	1,1-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	1,2,3-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	1,2,3-Trichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	1,2,4-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	1,2,4-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	1,2-Dibromo-3-chloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	1,2-Dibromoethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	1,2-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	1,2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	1,3,5-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	1,3,5-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	1,3-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	1,3-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	1,4-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	2,2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	2-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	4-Bromofluorobenzene**	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	4-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	4-iso-Propyltoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Benzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Bromobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Bromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Bromodichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Bromoform	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Bromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Carbon disulphide	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Carbontetrachloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Chlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Chloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Chloroform	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Chloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	cis-1,2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	cis-1,3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Dibromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Dibromofluoromethane**	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Dibromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Dichlorodifluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Dilution	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Ethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Hexachlorobutadiene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Isopropylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	LCS Reagent	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	m,p-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Methyl tertiary butyl ether (MTBE)	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Multiplier	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Naphthalene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	n-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	o-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Propylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	sec-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Styrene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Sum of detected Xylenes	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	tert-Amyl methyl ether (TAME)	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	tert-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Tetrachloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	TIC Instructions	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Toluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Toluene-d8**	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	trans-1,2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	trans-1,3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Trichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	Vinyl chloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515669	DVP67	1.70	SALINE_A	VOC MS (W)	VOC TIC	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	1,1,2-Trichloro-1,2,2-Trifluoroethane (TIC)	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	1.1.1.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	1.1.1-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	1.1.2.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	1.1.2-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	1.1-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	1.1-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	1.1-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	1.2.3-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	1.2.3-Trichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	1.2.4-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	1.2.4-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	1.2-Dibromo-3-chloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	1.2-Dibromoethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	1.2-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	1.2-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	1.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	1.3.5-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	1.3-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	1.3-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	1.4-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	2.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	2-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515696	DVP68	0.50	SOLID	VOC MS (S)	4-Bromofluorobenzene**	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	4-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	4-Isopropyltoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Benzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Bromobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Bromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Bromodichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Bromoform	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Bromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Carbon Disulphide	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Carbontetrachloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Chlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Chloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Chloroform	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Chloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	cis-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	cis-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Dibromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Dibromofluoromethane**	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Dibromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Dichlorodifluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Dichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Dilution	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Ethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Hexachlorobutadiene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515696	DVP68	0.50	SOLID	VOC MS (S)	Isopropylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	LCS Reagent	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Methyl Tertiary Butyl Ether	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Naphthalene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	n-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	o-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	p/m-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Propylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	sec-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Styrene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Tert-amyl methyl ether	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	tert-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Tetrachloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	TIC Instructions	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Toluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Toluene-d8**	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	trans-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	trans-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Trichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	Vinyl Chloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515696	DVP68	0.50	SOLID	VOC MS (S)	VOC TIC	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	1,1,2-Trichloro-1,2,2-Trifluoroethane (TIC)	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	1.1.1.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515706	DVP68	1.20	SOLID	VOC MS (S)	1.1.1-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	1.1.2.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	1.1.2-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	1.1-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	1.1-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	1.1-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	1.2.3-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	1.2.3-Trichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	1.2.4-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	1.2.4-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	1.2-Dibromo-3-chloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	1.2-Dibromoethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	1.2-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	1.2-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	1.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	1.3.5-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	1.3-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	1.3-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	1.4-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	2.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	2-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	4-Bromofluorobenzene**	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	4-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	4-Isopropyltoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Benzene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515706	DVP68	1.20	SOLID	VOC MS (S)	Bromobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Bromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Bromodichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Bromoform	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Bromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Carbon disulphide	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Carbontetrachloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Chlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Chloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Chloroform	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Chloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	cis-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	cis-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Dibromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Dibromofluoromethane**	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Dibromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Dichlorodifluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Dichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Dilution	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Ethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Hexachlorobutadiene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Isopropylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	LCS Reagent	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Methyl Tertiary Butyl Ether	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Naphthalene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515706	DVP68	1.20	SOLID	VOC MS (S)	n-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	o-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	p/m-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Propylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	sec-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Styrene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Tert-amyl methyl ether	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	tert-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Tetrachloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	TIC Instructions	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Toluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Toluene-d8**	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	trans-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	trans-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Trichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	Vinyl Chloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515706	DVP68	1.20	SOLID	VOC MS (S)	VOC TIC	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	1,1,2-Trichloro-1,2,2-Trifluoroethane (TIC)	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	1.1.1.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	1.1.1-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	1.1.2.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	1.1.2-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	1.1-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515728	DVP68	1.50	SOLID	VOC MS (S)	1.1-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	1.1-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	1.2.3-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	1.2.3-Trichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	1.2.4-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	1.2.4-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	1.2-Dibromo-3-chloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	1.2-Dibromoethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	1.2-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	1.2-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	1.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	1.3.5-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	1.3-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	1.3-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	1.4-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	2.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	2-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	4-Bromofluorobenzene**	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	4-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	4-Isopropyltoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Benzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Bromobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Bromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Bromodichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Bromoform	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515728	DVP68	1.50	SOLID	VOC MS (S)	Bromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Carbon disulphide	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Carbontetrachloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Chlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Chloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Chloroform	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Chloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	cis-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	cis-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Dibromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Dibromofluoromethane**	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Dibromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Dichlorodifluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Dichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Dilution	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Ethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Hexachlorobutadiene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Isopropylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	LCS Reagent	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Methyl Tertiary Butyl Ether	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Naphthalene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	n-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	o-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	p/m-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Propylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515728	DVP68	1.50	SOLID	VOC MS (S)	sec-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Styrene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Tert-amyl methyl ether	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	tert-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Tetrachloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	TIC Instructions	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Toluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Toluene-d8**	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	trans-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	trans-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Trichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	Vinyl Chloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515728	DVP68	1.50	SOLID	VOC MS (S)	VOC TIC	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	1,1,2-Trichloro-1,2,2-Trifluoroethane (TIC)	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	1.1.1.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	1.1.1-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	1.1.2.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	1.1.2-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	1.1-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	1.1-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	1.1-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	1.2.3-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	1.2.3-Trichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515743	DVP68	2.00	SOLID	VOC MS (S)	1.2.4-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	1.2.4-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	1.2-Dibromo-3-chloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	1.2-Dibromoethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	1.2-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	1.2-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	1.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	1.3.5-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	1.3-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	1.3-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	1.4-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	2.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	2-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	4-Bromofluorobenzene**	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	4-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	4-Isopropyltoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Benzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Bromobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Bromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Bromodichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Bromoform	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Bromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Carbon disulphide	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Carbontetrachloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Chlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515743	DVP68	2.00	SOLID	VOC MS (S)	Chloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Chloroform	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Chloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	cis-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	cis-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Dibromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Dibromofluoromethane**	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Dibromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Dichlorodifluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Dichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Dilution	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Ethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Hexachlorobutadiene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Isopropylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	LCS Reagent	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Methyl Tertiary Butyl Ether	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Naphthalene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	n-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	o-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	p/m-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Propylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	sec-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Styrene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Tert-amyl methyl ether	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	tert-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515743	DVP68	2.00	SOLID	VOC MS (S)	Tetrachloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	TIC Instructions	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Toluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Toluene-d8**	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	trans-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	trans-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Trichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	Vinyl Chloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515743	DVP68	2.00	SOLID	VOC MS (S)	VOC TIC	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	1,1,2-Trichloro-1,2,2-Trifluoroethane (TIC)	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	1.1.1.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	1.1.1-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	1.1.2.2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	1.1.2-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	1.1-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	1.1-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	1.1-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	1.2.3-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	1.2.3-Trichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	1.2.4-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	1.2.4-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	1.2-Dibromo-3-chloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	1.2-Dibromoethane	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
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Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515924	DVP70	0.80	SOLID	VOC MS (S)	1.2-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	1.2-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	1.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	1.3.5-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	1.3-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	1.3-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	1.4-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	2.2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	2-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	4-Bromofluorobenzene**	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	4-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	4-Isopropyltoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Benzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Bromobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Bromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Bromodichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Bromoform	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Bromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Carbon disulphide	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Carbontetrachloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Chlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Chloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Chloroform	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Chloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	cis-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

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Order Number: CD0127
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Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515924	DVP70	0.80	SOLID	VOC MS (S)	cis-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Dibromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Dibromofluoromethane**	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Dibromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Dichlorodifluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Dichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Dilution	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Ethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Hexachlorobutadiene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Isopropylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	LCS Reagent	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Methyl Tertiary Butyl Ether	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Naphthalene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	n-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	o-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	p/m-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Propylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	sec-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Styrene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Tert-amyl methyl ether	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	tert-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Tetrachloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	TIC Instructions	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Toluene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Toluene-d8**	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3515924	DVP70	0.80	SOLID	VOC MS (S)	trans-1-2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	trans-1-3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Trichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Trichlorofluorormethane	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	Vinyl Chloride	Volatile Analysis performed on vessel with headspace due testing requirement
3515924	DVP70	0.80	SOLID	VOC MS (S)	VOC TIC	Volatile Analysis performed on vessel with headspace due testing requirement

Note : Test results may be invalid



SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
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Table of Results - Appendix

REPORT KEY

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10 ⁻⁷							
NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PFD	Possible Fibres Detected	»	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM001	In - house Method	Determination of asbestos containing material by screening on solids		
TM061	Method for the Determination of EPH,Massachusetts Dept.of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM174	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID		
TM176	EPA 8270D Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of SVOCs in Water by GCMS		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM208	Modified: US EPA Method 8260b & 624	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		
TM245	By GC-FID	Determination of GRO by Headspace in waters		

¹ Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.



CERTIFICATE OF ANALYSIS

SDG: 110523-21
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Order Number: CD0127
Report Number: 131655
Superseded Report:

Test Completion Dates

Lab Sample No(s)	3514312	3514315	3514317	3514318	3514319	3514321	3514322	3514325	3514329	3514333
Customer Sample Ref.	DVP58	DVP58	DVP58	DVP59	DVP59	DVP59	DVP60	DVP60	DVP60	DVP61
AGS Ref.										
Depth	0.80	1.60	2.90	0.50	1.20	2.50	0.30	2.10	3.10	0.20
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos Containing Material Screen	25-May-2011			25-May-2011	25-May-2011		25-May-2011			25-May-2011
EPH CWG (Aliphatic) GC (S)	27-May-2011	27-May-2011	27-May-2011	27-May-2011	27-May-2011	27-May-2011	27-May-2011	27-May-2011	31-May-2011	31-May-2011
EPH CWG (Aromatic) GC (S)	27-May-2011	27-May-2011	27-May-2011	27-May-2011	27-May-2011	27-May-2011	27-May-2011	27-May-2011	31-May-2011	31-May-2011
GRO by GC-FID (S)	28-May-2011	28-May-2011	28-May-2011	28-May-2011	28-May-2011	28-May-2011	28-May-2011	28-May-2011	29-May-2011	28-May-2011
Metals by iCap-OES (Soil)	27-May-2011	27-May-2011		27-May-2011	27-May-2011		27-May-2011			31-May-2011
PAH by GCMS		28-May-2011	28-May-2011	29-May-2011					29-May-2011	
pH	27-May-2011		27-May-2011	27-May-2011			27-May-2011	27-May-2011	27-May-2011	
Sample description	25-May-2011	25-May-2011	25-May-2011	25-May-2011	25-May-2011	25-May-2011	25-May-2011	25-May-2011	25-May-2011	25-May-2011
Semi Volatile Organic Compounds	31-May-2011				28-May-2011	28-May-2011	28-May-2011	27-May-2011		27-May-2011
Total Organic Carbon			31-May-2011			31-May-2011				
TPH CWG GC (S)	28-May-2011	28-May-2011	28-May-2011	28-May-2011	28-May-2011	28-May-2011	28-May-2011	28-May-2011	31-May-2011	31-May-2011
VOC MS (S)	31-May-2011				29-May-2011	31-May-2011	29-May-2011	30-May-2011		29-May-2011

Lab Sample No(s)	3514335	3514336	3514338	3514339	3514340	3514343	3514345	3514347	3514348	3514349
Customer Sample Ref.	DVP61	DVP61	DVP61	DVP62	DVP62	DVP62	DVP63	DVP63	DVP64	DVP64
AGS Ref.										
Depth	0.80	1.50	2.50	0.20	1.00	2.50	0.80	1.80	0.50	1.30
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SALINE_A	SOLID	SOLID
Asbestos Containing Material Screen	25-May-2011						25-May-2011		25-May-2011	
EPH CWG (Aliphatic) Aqueous GC (W)								31-May-2011		
EPH CWG (Aliphatic) GC (S)	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011		31-May-2011	31-May-2011
EPH CWG (Aromatic) Aqueous GC (W)								31-May-2011		
EPH CWG (Aromatic) GC (S)	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011		31-May-2011	31-May-2011
GRO by GC-FID (S)	29-May-2011	28-May-2011	29-May-2011	28-May-2011	28-May-2011	28-May-2011	28-May-2011		28-May-2011	28-May-2011
GRO by GC-FID (W)								31-May-2011		
Metals by iCap-OES (Soil)	31-May-2011	31-May-2011		31-May-2011	31-May-2011	31-May-2011	31-May-2011		01-Jun-2011	31-May-2011
PAH by GCMS	29-May-2011			29-May-2011		28-May-2011				
pH		26-May-2011	27-May-2011				27-May-2011		27-May-2011	27-May-2011
Sample description	25-May-2011	25-May-2011	25-May-2011	25-May-2011	26-May-2011	25-May-2011	25-May-2011		25-May-2011	25-May-2011
Semi Volatile Organic Compounds		27-May-2011		27-May-2011	28-May-2011		28-May-2011		31-May-2011	28-May-2011
SVOC MS (W) - Aqueous								28-May-2011		
Total Organic Carbon			31-May-2011		31-May-2011	31-May-2011				
TPH CWG (W)								31-May-2011		
TPH CWG GC (S)	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011		31-May-2011	31-May-2011
VOC MS (S)		29-May-2011		31-May-2011	29-May-2011		29-May-2011		31-May-2011	31-May-2011
VOC MS (W)								30-May-2011		

Lab Sample No(s)	3514352	3514353	3514355	3514356	3514357	3514358	3514359	3514360	3514361	3514362
Customer Sample Ref.	DVP64	DVP65	DVP65	DVP65	DVP66	DVP66	DVP66	DVP66	DVP67	DVP67
AGS Ref.										
Depth	3.50	0.20	1.30	2.50	0.40	0.70	1.20	1.20	0.50	1.20
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SALINE_A	SOLID	SOLID
Asbestos Containing Material Screen		25-May-2011							25-May-2011	25-May-2011
EPH CWG (Aliphatic) Aqueous GC (W)								01-Jun-2011		
EPH CWG (Aliphatic) GC (S)	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011		31-May-2011	31-May-2011
EPH CWG (Aromatic) Aqueous GC (W)								01-Jun-2011		
EPH CWG (Aromatic) GC (S)	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011		31-May-2011	31-May-2011
GRO by GC-FID (S)	28-May-2011	28-May-2011	31-May-2011	28-May-2011	29-May-2011	28-May-2011	28-May-2011		29-May-2011	28-May-2011
GRO by GC-FID (W)								29-May-2011		
Metals by iCap-OES (Soil)		31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011		31-May-2011	31-May-2011
PAH by GCMS	28-May-2011				27-May-2011					
pH		27-May-2011	27-May-2011	27-May-2011		27-May-2011	27-May-2011		27-May-2011	27-May-2011
Sample description	25-May-2011	25-May-2011	25-May-2011	25-May-2011	25-May-2011	25-May-2011	25-May-2011		26-May-2011	25-May-2011
Semi Volatile Organic Compounds		31-May-2011	31-May-2011			28-May-2011	28-May-2011		28-May-2011	28-May-2011
SVOC MS (W) - Aqueous								29-May-2011		
Total Organic Carbon	31-May-2011			31-May-2011						
TPH CWG (W)								01-Jun-2011		
TPH CWG GC (S)	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011		31-May-2011	31-May-2011
VOC MS (S)		31-May-2011	31-May-2011	31-May-2011		31-May-2011	29-May-2011		31-May-2011	31-May-2011
VOC MS (W)								30-May-2011		



CERTIFICATE OF ANALYSIS

SDG: 110523-21
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0127
Report Number: 131655
Superseded Report:

Lab Sample No(s)	3514363	3514364	3514366	3514367	3514368	3514370	3514372	3514374	3514377	3514379
Customer Sample Ref.	DVP67	DVP67	DVP67	DVP68	DVP68	DVP68	DVP68	DVP69	DVP69	DVP69
AGS Ref.										
Depth	1.70	2.10	1.70	0.50	1.20	1.50	2.00	0.50	1.50	2.50
Type	SOLID	SOLID	SALINE_A	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
EPH CWG (Aliphatic) Aqueous GC (W)			31-May-2011							
EPH CWG (Aliphatic) GC (S)	31-May-2011	27-May-2011		31-May-2011	31-May-2011	27-May-2011	31-May-2011	31-May-2011	27-May-2011	31-May-2011
EPH CWG (Aromatic) Aqueous GC (W)			31-May-2011							
EPH CWG (Aromatic) GC (S)	31-May-2011	27-May-2011		31-May-2011	31-May-2011	27-May-2011	31-May-2011	31-May-2011	27-May-2011	31-May-2011
GRO by GC-FID (S)	29-May-2011	28-May-2011		28-May-2011	28-May-2011	29-May-2011	28-May-2011	29-May-2011	28-May-2011	29-May-2011
GRO by GC-FID (W)			31-May-2011							
Metals by iCap-OES (Soil)	31-May-2011			31-May-2011	31-May-2011	27-May-2011		31-May-2011	27-May-2011	
PAH by GCMS								31-May-2011	28-May-2011	
pH	27-May-2011	27-May-2011		27-May-2011	27-May-2011	27-May-2011	27-May-2011			
Sample description	26-May-2011	25-May-2011		26-May-2011	25-May-2011	25-May-2011	25-May-2011	26-May-2011	25-May-2011	25-May-2011
Semi Volatile Organic Compounds	31-May-2011	28-May-2011		28-May-2011	31-May-2011	28-May-2011	28-May-2011		28-May-2011	
SVOC MS (W) - Aqueous			29-May-2011							
TPH CWG (W)			31-May-2011							
TPH CWG GC (S)	31-May-2011	28-May-2011		31-May-2011	31-May-2011	29-May-2011	31-May-2011	31-May-2011	28-May-2011	31-May-2011
VOC MS (S)	31-May-2011	31-May-2011		31-May-2011	31-May-2011	31-May-2011	31-May-2011		30-May-2011	
VOC MS (W)			31-May-2011							

Lab Sample No(s)	3514382	3514383	3514385	3514386	3514388	3514389	3514390	3514393	3514395	3514397
Customer Sample Ref.	DVP70	DVP71	DVP71	DVP71	DVP72	DVP72	DVP73	DVP73	DVP74	DVP74
AGS Ref.										
Depth	0.80	0.40	1.00	1.60	0.50	1.00	0.50	1.80	0.20	1.40
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos Containing Material Screen	25-May-2011							26-May-2011	25-May-2011	
EPH CWG (Aliphatic) GC (S)	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011
EPH CWG (Aromatic) GC (S)	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011
GRO by GC-FID (S)	28-May-2011	27-May-2011	28-May-2011	29-May-2011	29-May-2011	29-May-2011	31-May-2011	31-May-2011	28-May-2011	28-May-2011
Metals by iCap-OES (Soil)	31-May-2011	31-May-2011	01-Jun-2011	31-May-2011	27-May-2011	01-Jun-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011
PAH by GCMS			28-May-2011	28-May-2011	28-May-2011	28-May-2011	28-May-2011	27-May-2011		27-May-2011
pH	26-May-2011	26-May-2011	26-May-2011						27-May-2011	
Sample description	26-May-2011	26-May-2011	26-May-2011	25-May-2011	25-May-2011	25-May-2011	25-May-2011	25-May-2011	25-May-2011	25-May-2011
Semi Volatile Organic Compounds	28-May-2011	28-May-2011							28-May-2011	
TPH CWG GC (S)	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011	31-May-2011
VOC MS (S)	31-May-2011	31-May-2011							30-May-2011	



CERTIFICATE OF ANALYSIS

SDG:	110523-21	Location:	Coed Darcy Urban Village	Order Number:	CD0127
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	131655
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA Leach tests, flash point, ammonium as NH4 by the BRE method, VOC TICS, SVOC TICS, TOF-MS SCAN/SEARCH and TOF-MS TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for both soil jars, tubs and volatile jars. All waters and vials will be discarded 10 days after the analysis is completed (e-mailed). All material removed during an asbestos containing material screen and analysed for the presence of asbestos will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be screened in house for the presence of large asbestos containing material fragments/pieces. If no asbestos containing material is found this will be reported as 'no asbestos containing material detected'. If asbestos containing material is detected it will be removed and analysed by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If asbestos containing material is present no further analysis will be undertaken. At no point is the fibre content of the soil sample determined.

7. If no separate volatile sample is supplied by the client, the integrity of the data may be compromised if the laboratory is required to create a sub-sample from the bulk sample -similarly, if a headspace or sediment is present in the volatile sample. This will be flagged up as an invalid VOC on the test schedule or recorded on the log sheet.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials -whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C4 -C10 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

SOLID MATRICES EXTRACTION SUMMARY				
ANALYSIS	D/C OR VET	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
SOLVENT EXTRACTABLE MATTER	D&C	DOM	SOX THERM	GRAVIMETRIC
CYCLOHEXANE EXT. MATTER	D&C	CYCLOHEXANE	SOX THERM	GRAVIMETRIC
THIN LAYER CHROMATOGRAPHY	D&C	DOM	SOX THERM	ATROSCAN
ELEMENTAL SULPHUR	D&C	DOM	SOX THERM	HPLC
PHENOLS BY GC/MS	VET	DOM	SOX THERM	GC/MS
HERBICIDES	D&C	HEXANE/ACETONE	SOX THERM	GC/MS
PESTICIDES	D&C	HEXANE/ACETONE	SOX THERM	GC/MS
EPH (DRO)	D&C	HEXANE/ACETONE	END OVER END	GC/FID
EPH (MIN OIL)	D&C	HEXANE/ACETONE	END OVER END	GC/FID
EPH (CLEANED UP)	D&C	HEXANE/ACETONE	END OVER END	GC/FID
EPH OAG BY GC	D&C	HEXANE/ACETONE	END OVER END	GC/FID
PCB TOT / PCB CON	D&C	HEXANE/ACETONE	END OVER END	GC/MS
POLYAROMATIC HYDROCARBONS (MS)	VET	HEXANE/ACETONE	MICROWAVE TM218	GC/MS
C8-C40 (C8-C40) EZ FLASH	VET	HEXANE/ACETONE	SHAKER	GC/EZ
POLYAROMATIC HYDROCARBONS RAPID GC	VET	HEXANE/ACETONE	SHAKER	GC/EZ
SEM VOLATILE ORGANIC COMPOUNDS	VET	DOM/ACETONE	SONICATE	GC/MS

LIQUID MATRICES EXTRACTION SUMMARY			
ANALYSIS	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
PAHMS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC/MS
EPH	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC/FID
EPH OAG	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC/FID
MINERAL OIL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC/FID
PCB 7 CONGENERS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC/MS
PCB TOTAL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC/MS
SVOC	DOM	LIQUID/LIQUID SHAKE	GC/MS
FREESULPHUR	DOM	SOLID PHASE EXTRACTION	HPLC
PEST COP/OPP	DOM	LIQUID/LIQUID SHAKE	GC/MS
TRIAZINE HERBS	DOM	LIQUID/LIQUID SHAKE	GC/MS
PHENOLS MS	DOM	SOLID PHASE EXTRACTION	GC/MS
TPH by INFRARED (IR)	TCE	LIQUID/LIQUID SHAKE	HPLC
MINERAL OIL by IR	TCE	LIQUID/LIQUID SHAKE	HPLC
GLYCOLS	NONE	DIRECT INJECTION	GC/MS

Identification of Asbestos in Bulk Materials

The results for asbestos identification for soil samples are obtained from possible Asbestos Containing Material, removed during the 'Screening of soils for Asbestos Containing Materials', which have been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-



Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
Coed Darcy
Llandarcy
SA10 6HJ

Attention: Alex Mann

CERTIFICATE OF ANALYSIS

Date: 20 May 2011
Customer: H_ATKINS_LDC
Sample Delivery Group (SDG): 110513-133
Your Reference: DiMe Trial Pit Validation
Location: Coed Darcy Urban Village
Report No: 129838

This report has been revised and directly supersedes 129412 in its entirety.

We received 25 samples on Thursday May 12, 2011 and 17 of these samples were scheduled for analysis which was completed on Friday May 20, 2011. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Asbestos testing - we are not accredited for screening soil samples for asbestos fibres. We are only accredited to identify asbestos fibres in bulk material (ACM).

Approved By:

Sonia McWhan

Operations Manager



1291
GROUP



CERTIFICATE OF ANALYSIS

Validated

SDG:	110513-133	Location:	Coed Darcy Urban Village	Order Number:	CD0123
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	129838
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	129412

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
3449089	DVP 52		0.40	12/05/2011
3449090	DVP 52		0.80	12/05/2011
3449091	DVP 52		1.20	12/05/2011
3449094	DVP 53		0.50	12/05/2011
3449095	DVP 53		1.00	12/05/2011
3449096	DVP 53		1.40	12/05/2011
3449097	DVP 53		1.80	12/05/2011
3449098	DVP 53		2.20	12/05/2011
3449100	DVP 54		0.20	12/05/2011
3449101	DVP 54		0.80	12/05/2011
3449102	DVP 54		2.00	12/05/2011
3449104	DVP 54		3.20	12/05/2011
3449106	DVP 55		0.50	12/05/2011
3449107	DVP 55		1.40	12/05/2011
3449108	DVP 55		2.00	12/05/2011
3449110	DVP 56		0.50	12/05/2011
3449111	DVP 56		1.50	12/05/2011
3449112	DVP 56		2.50	12/05/2011
3449113	DVP 56		3.50	12/05/2011
3449114	DVP 57		1.00	12/05/2011
3449115	DVP 57		2.00	12/05/2011
3449116	DVP 57		3.00	12/05/2011
3449092	DVPW 52		1.20	12/05/2011
3449099	DVPW 53		1.70	12/05/2011
3449109	DVPW 55		1.60	12/05/2011

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

SDG: 110513-133
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0123
Report Number: 129838
Superseded Report: 129412

LEACH

Results Legend



Test

No Determination
Possible

Lab Sample No(s)

3449092

3449099

Customer
Sample Reference

DVPW 52

DVPW 53

AGS Reference

Depth (m)

1.20

1.70

Container

1l green glass bottle

1l green glass bottle

Vial

EPH CWG (Aliphatic) Aqueous GC (W)	All	NDPs: 0 Tests: 3			
EPH CWG (Aromatic) Aqueous GC (W)	All	NDPs: 0 Tests: 3			
GRO by GC-FID (W)	All	NDPs: 0 Tests: 3			
SVOC MS (W) - Aqueous	All	NDPs: 0 Tests: 3			
TPH CWG (W)	All	NDPs: 0 Tests: 3			
VOC MS (W)	All	NDPs: 0 Tests: 3			



SDG: 110513-133
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0123
Report Number: 129838
Superseded Report: 129412

LEACH**Results Legend**

Test

No Determination
Possible**Lab Sample No(s)**

3449109

**Customer
Sample Reference**

DVPW 55

AGS Reference**Depth (m)**

1.60

Container1l green glass bottle
Vial

EPH CWG (Aliphatic) Aqueous GC (W)	All	NDPs: 0 Tests: 3		
EPH CWG (Aromatic) Aqueous GC (W)	All	NDPs: 0 Tests: 3		
GRO by GC-FID (W)	All	NDPs: 0 Tests: 3		
SVOC MS (W) - Aqueous	All	NDPs: 0 Tests: 3		
TPH CWG (W)	All	NDPs: 0 Tests: 3		
VOC MS (W)	All	NDPs: 0 Tests: 3		



CERTIFICATE OF ANALYSIS

SDG: 110513-133
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0123
Report Number: 129838
Superseded Report: 129412

SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	3449108		DVP 55				2.00		60g VOC 400g Tub	
	3449107		DVP 55				1.40		250g Amber Jar 60g VOC 400g Tub	
	3449106		DVP 55				0.50		250g Amber Jar 60g VOC 400g Tub	
	3449104		DVP 54				3.20		250g Amber Jar 60g VOC 400g Tub	
Asbestos Containing Material Screen	3449102		DVP 54				2.00		250g Amber Jar 60g VOC 400g Tub	
	3449100		DVP 54				0.20		250g Amber Jar 60g VOC 400g Tub	
	3449098		DVP 53				2.20		250g Amber Jar 60g VOC 400g Tub	
	3449097		DVP 53				1.80		250g Amber Jar 60g VOC 400g Tub	
	3449096		DVP 53				1.40		250g Amber Jar 60g VOC 400g Tub	
	3449094		DVP 53				0.50		250g Amber Jar 60g VOC 400g Tub	
	3449091		DVP 52				1.20		250g Amber Jar 60g VOC 400g Tub	
	3449089		DVP 52				0.40		250g Amber Jar 60g VOC 400g Tub	
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 14								
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 14								
GRO by GC-FID (S)	All	NDPs: 0 Tests: 14								
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 9								
	Cadmium	NDPs: 0 Tests: 9								
	Chromium	NDPs: 0 Tests: 9								
	Copper	NDPs: 0 Tests: 9								
	Lead	NDPs: 0 Tests: 9								
	Mercury	NDPs: 0 Tests: 9								
	Nickel	NDPs: 0 Tests: 9								
	Selenium	NDPs: 0 Tests: 9								
	Vanadium	NDPs: 0 Tests: 9								
	Zinc	NDPs: 0 Tests: 9								
PAH by GCMS	All	NDPs: 0 Tests: 3								



CERTIFICATE OF ANALYSIS

SDG: 110513-133
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0123
Report Number: 129838
Superseded Report: 129412

SOLID			Results Legend													
			X Test N No Determination Possible													
Lab Sample No(s)																
Customer Sample Reference																
AGS Reference																
Depth (m)																
Container																
			3449089	3449091	3449094	3449096	3449097	3449098	3449100	3449102	3449104	3449106	3449107	3449108		
			DVP 52	DVP 52	DVP 53	DVP 53	DVP 53	DVP 53	DVP 54	DVP 54	DVP 54	DVP 55	DVP 55	DVP 55		
			0.40	1.20	0.50	1.40	1.80	2.20	0.20	2.00	3.20	0.50	1.40	2.00		
			250g Amber Jar 400g Tub	250g Amber Jar 400g Tub	250g Amber Jar 60g VOC 400g Tub	250g Amber Jar 60g VOC 400g Tub	250g Amber Jar 60g VOC 400g Tub	250g Amber Jar 60g VOC 400g Tub	250g Amber Jar 60g VOC 400g Tub	250g Amber Jar 60g VOC 400g Tub	250g Amber Jar 60g VOC 400g Tub	250g Amber Jar 60g VOC 400g Tub	250g Amber Jar 60g VOC 400g Tub	250g Amber Jar 60g VOC 400g Tub		
pH	All	NDPs: 0 Tests: 14	X	X	X	X	X	X	X	X	X	X	X	X		
Sample description	All	NDPs: 0 Tests: 14	X	X	X	X	X	X	X	X	X	X	X	X		
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 10	X	X	X	X	X			X		X	X	X		
Total Organic Carbon	All	NDPs: 0 Tests: 1									X					
TPH CWG GC (S)	All	NDPs: 0 Tests: 14	X	X	X	X	X	X	X	X	X	X	X	X		
VOC MS (S)	All	NDPs: 0 Tests: 10		X	X	X	X	X			X		X	X	X	



CERTIFICATE OF ANALYSIS

SDG: 110513-133
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0123
Report Number: 129838
Superseded Report: 129412

SOLID**Results Legend**

Test



No Determination Possible

Lab Sample No(s)

3449110

3449111

Customer Sample Reference

DVP 56

DVP 56

AGS Reference**Depth (m)**

0.50

1.50

Container

250g Amber Jar

400g Tub

250g Amber Jar

60g VOC

400g Tub

60g VOC

Asbestos Containing Material Screen

All

NDPs: 0
Tests: 7

X

EPH CWG (Aliphatic) GC (S)

All

NDPs: 0
Tests: 14

X

X

EPH CWG (Aromatic) GC (S)

All

NDPs: 0
Tests: 14

X

X

GRO by GC-FID (S)

All

NDPs: 0
Tests: 14

X

X

Metals by iCap-OES (Soil)

Arsenic

NDPs: 0
Tests: 9

X

X

Cadmium

NDPs: 0
Tests: 9

X

X

Chromium

NDPs: 0
Tests: 9

X

X

Copper

NDPs: 0
Tests: 9

X

X

Lead

NDPs: 0
Tests: 9

X

X

Mercury

NDPs: 0
Tests: 9

X

X

Nickel

NDPs: 0
Tests: 9

X

X

Selenium

NDPs: 0
Tests: 9

X

X

Vanadium

NDPs: 0
Tests: 9

X

X

Zinc

NDPs: 0
Tests: 9

X

X

PAH by GCMS

All

NDPs: 0
Tests: 3

X



CERTIFICATE OF ANALYSIS

Validated

SDG:	110513-133	Location:	Coed Darcy Urban Village	Order Number:	CD0123
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	129838
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	129412

SOLID

Results Legend

X Test

N No Determination Possible

Lab Sample No(s)	3449110	3449111
Customer Sample Reference	DVP 56	DVP 56
AGS Reference		
Depth (m)	0.50	1.50
Container	250g Amber Jar	60g VOC 400g Tub 250g Amber Jar 60g VOC 400g Tub

pH	All	NDPs: 0 Tests: 14	X	X				
Sample description	All	NDPs: 0 Tests: 14	X		X			
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 10	X					
TPH CWG GC (S)	All	NDPs: 0 Tests: 14	X		X			
VOC MS (S)	All	NDPs: 0 Tests: 10			X			



SDG:	110513-133	Location:	Coed Darcy Urban Village	Order Number:	CD0123
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	129838
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	129412

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm
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Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
3449089	DVP 52	0.40	Light Brown	Clay Loam	<0.063 mm	Stones	None
3449091	DVP 52	1.20	Dark Brown	Sand	0.1 - 2 mm	Stones	N/A
3449094	DVP 53	0.50	Dark Brown	Sand	0.1 - 2 mm	Stones	Vegetation
3449096	DVP 53	1.40	Light Brown	Sandy Clay	0.1 - 2 mm	Oil/Petroleum	Stones
3449097	DVP 53	1.80	Light Brown	Sand	0.1 - 2 mm	Oil/Petroleum	Stones
3449098	DVP 53	2.20	Light Brown	Loamy Sand	0.1 - 2 mm	Oil/Petroleum	Stones
3449100	DVP 54	0.20	Light Brown	Loamy Sand	0.1 - 2 mm	Stones	None
3449102	DVP 54	2.00	Grey	Sand	0.1 - 2 mm	Stones	N/A
3449104	DVP 54	3.20	Light Brown	Sandy Clay	0.063 - 0.1 mm	Stones	None
3449106	DVP 55	0.50	Light Brown	Clay Loam	<0.063 mm	Stones	None
3449107	DVP 55	1.40	Grey	Sand	0.1 - 2 mm	Stones	N/A
3449108	DVP 55	2.00	Black	Sand	0.1 - 2 mm	Stones	N/A
3449110	DVP 56	0.50	Dark Brown	Sand	0.1 - 2 mm	Stones	N/A
3449111	DVP 56	1.50	Light Brown	Loamy Sand	0.063 - 0.1 mm	Oil/Petroleum	Stones

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

Order Number: CD0123
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SDG:	110513-133	Location:	Coed Darcy Urban Village	Order Number:	CD0123
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	129838
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	129412

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CERTIFICATE OF ANALYSIS

SDG:	110513-133	Location:	Coed Darcy Urban Village	Order Number:	CD0123
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	129838
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	129412

Results Legend		Customer Sample R	DVP 56		DVP 56					
#	ISO17025 accredited.		Depth (m)	0.50	1.50	Soil/Solid				
M	mCERTS accredited.	Sample Type	Soil/Solid	Soil/Solid <td>Soil/Solid</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Soil/Solid					
S	Non-conforming work.	Date Sampled	12/05/2011	12/05/2011	12/05/2011					
aq	Aqueous / settled sample.	Date Received <td>12/05/2011</td> <th>12/05/2011</th> <td>12/05/2011</td> <td></td> <td></td> <td></td> <td></td> <td></td>	12/05/2011	12/05/2011	12/05/2011					
diss.filt	Dissolved / filtered sample.	SDG Ref	110513-133	110513-133	110513-133					
tot.unfilt	Total / unfiltered sample.	Lab Sample No.(s)	3449110	3449110	3449111					
*	Subcontracted test.	AGS Reference								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F)	Trigger breach confirmed									
Component		LOD/Units	Method	No ACM Detected						
Asbestos Containing Material Screen		-	TM001							
pH		1 pH Units	TM133	8.29	M	8.37	M			
Arsenic		<0.6 mg/kg	TM181	27.7	M	21	M			
Cadmium		<0.02 mg/kg	TM181	0.962	M	1.1	M			
Chromium		<0.9 mg/kg	TM181	17.2	M	18.2	M			
Copper		<1.4 mg/kg	TM181	128	M	68.3	M			
Lead		<0.7 mg/kg	TM181	74.7	M	78.8	M			
Mercury		<0.14 mg/kg	TM181	5.75	M	19.3	M			
Nickel		<0.2 mg/kg	TM181	20.5	M	19.1	M			
Selenium		<1 mg/kg	TM181	<1	#	<1	#			
Vanadium		<0.2 mg/kg	TM181	18.2	#	18.7	#			
Zinc		<1.9 mg/kg	TM181	196	M	174	M			

Order Number: CD0123
Report Number: 129838
Superseded Report: 129412

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CERTIFICATE OF ANALYSIS

SDG: 110513-133
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0123
Report Number: 129838
Superseded Report: 129412

Semi Volatile Organic Compounds

Results Legend		Customer Sample R	DVP 52	DVP 52	DVP 53	DVP 53	DVP 53	DVP 54
#	ISO17025 accredited.							
M	mCERTS accredited.							
S	Non-conforming work.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
Component	LOD/Units	Method						
Phenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Carbazole	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157	558	1050	<100	<100	<100	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2-Chlorophenol	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157	<100	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157	<100	<100	<100	<100	133	<100

Semi Volatile Organic Compounds

Order Number:	CD0123
Report Number:	129838
Superseded Report:	129412

11:37:19 20/05/2011



CERTIFICATE OF ANALYSIS

SDG: 110513-133
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0123
Report Number: 129838
Superseded Report: 129412

Semi Volatile Organic Compounds

Results Legend			Customer Sample R		DVP 55	DVP 55	DVP 55	DVP 56		
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50	1.40	2.00	0.50		
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
S	Non-conforming work.				12/05/2011	12/05/2011	12/05/2011	12/05/2011		
aq	Aqueous / settled sample.				12/05/2011	12/05/2011	12/05/2011	12/05/2011		
diss.filt	Dissolved / filtered sample.				110513-133	110513-133	110513-133	110513-133		
tot.unfilt	Total / unfiltered sample.				3449106	3449107	3449108	3449110		
*	Subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F)	Trigger breach confirmed									
Component	LOD/Units	Method								
Phenol	<100 µg/kg	TM157			<100	<100	<100	<100		
Pentachlorophenol	<100 µg/kg	TM157			<100	<100	<100	<100		
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157			<100	<100	<100	<100		
Nitrobenzene	<100 µg/kg	TM157			<100	<100	<100	<100		
Isophorone	<100 µg/kg	TM157			<100	<100	<100	<100		
Hexachloroethane	<100 µg/kg	TM157			<100	<100	<100	<100		
Hexachlorocyclopentadiene	<100 µg/kg	TM157			<100	<100	<100	<100		
Hexachlorobutadiene	<100 µg/kg	TM157			<100	<100	<100	<100		
Hexachlorobenzene	<100 µg/kg	TM157			<100	<100	<100	<100		
n-Dioctyl phthalate	<100 µg/kg	TM157			<100	<100	<100	<100		
Dimethyl phthalate	<100 µg/kg	TM157			<100	<100	473	<100		
Diethyl phthalate	<100 µg/kg	TM157			<100	<100	<100	<100		
n-Dibutyl phthalate	<100 µg/kg	TM157			<100	<100	<100	<100		
Dibenzofuran	<100 µg/kg	TM157			<100	<100	<100	<100		
Carbazole	<100 µg/kg	TM157			<100	<100	<100	<100		
Butylbenzyl phthalate	<100 µg/kg	TM157			<100	<100	<100	<100		
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157			205	<100	<100	148		
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157			<100	<100	<100	<100		
bis(2-Chloroethyl)ether	<100 µg/kg	TM157			<100	<100	<100	<100		
Azobenzene	<100 µg/kg	TM157			<100	<100	<100	<100		
4-Nitrophenol	<100 µg/kg	TM157			<100	<100	<100	<100		
4-Nitroaniline	<100 µg/kg	TM157			<100	<100	<100	<100		
4-Methylphenol	<100 µg/kg	TM157			<100	<100	<100	<100		
4-Chlorophenylphenylether	<100 µg/kg	TM157			<100	<100	<100	<100		
4-Chloroaniline	<100 µg/kg	TM157			<100	<100	<100	<100		
4-Chloro-3-methylphenol	<100 µg/kg	TM157			<100	<100	<100	<100		
4-Bromophenylphenylether	<100 µg/kg	TM157			<100	<100	<100	<100		
3-Nitroaniline	<100 µg/kg	TM157			<100	<100	<100	<100		
2-Nitrophenol	<100 µg/kg	TM157			<100	<100	<100	<100		
2-Nitroaniline	<100 µg/kg	TM157			<100	<100	<100	<100		
2-Methylphenol	<100 µg/kg	TM157			<100	<100	<100	<100		
1,2,4-Trichlorobenzene	<100 µg/kg	TM157			<100	<100	<100	<100		
2-Chlorophenol	<100 µg/kg	TM157			<100	<100	<100	<100		
2,6-Dinitrotoluene	<100 µg/kg	TM157			<100	<100	<100	<100		
2,4-Dinitrotoluene	<100 µg/kg	TM157			<100	<100	<100	<100		

Semi Volatile Organic Compounds

Order Number:	CD0123
Report Number:	129838
Superseded Report:	129412

11:37:19 20/05/2011



CERTIFICATE OF ANALYSIS

SDG: 110513-133
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0123
Report Number: 129838
Superseded Report: 129412

SVOC MS (W) - Aqueous

Results Legend		Customer Sample R	DVPW 52	DVPW 53	DVPW 55			
#	ISO17025 accredited. mCERTS accredited. Non-conforming work. Aqueous / settled sample. Dissolved / filtered sample. Total / unfiltered sample. Subcontracted test. * % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery (F) Trigger breach confirmed							
aq	diss.filt	tot.unfilt	*	**				
Depth (m)	Sample Type	Date Sampled	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference		
Component	LOD/Units	Method						
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<10	<50	<50			
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<10	<50	<50			
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<10	<50	<50			
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<10	<50	<50			
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<10	<50	<50			
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<10	<50	<50			
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<10	<50	<50			
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	<10	<50	<50			
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<10	<50	<50			
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<10	<50	<50			
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<10	<50	<50			
2-Chlorophenol (aq)	<1 µg/l	TM176	<10	<50	<50			
2-Methylnaphthalene (aq)	<1 µg/l	TM176	96.8	123	<50			
2-Methylphenol (aq)	<1 µg/l	TM176	<10	<50	<50			
2-Nitroaniline (aq)	<1 µg/l	TM176	<10	<50	<50			
2-Nitrophenol (aq)	<1 µg/l	TM176	<10	<50	<50			
3-Nitroaniline (aq)	<1 µg/l	TM176	<10	<50	<50			
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<10	<50	<50			
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<10	<50	<50			
4-Chloroaniline (aq)	<1 µg/l	TM176	<10	<50	<50			
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<10	<50	<50			
4-Methylphenol (aq)	<1 µg/l	TM176	<10	<50	<50			
4-Nitrophenol (aq)	<1 µg/l	TM176	<10	<50	<50			
4-Nitroaniline (aq)	<1 µg/l	TM176	<10	<50	<50			
Azobenzene (aq)	<1 µg/l	TM176	<10	<50	<50			
Acenaphthylene (aq)	<1 µg/l	TM176	<10	<50	<50			
Acenaphthene (aq)	<1 µg/l	TM176	<10	<50	<50			
Anthracene (aq)	<1 µg/l	TM176	<10	<50	<50			
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<10	<50	<50			
bis(2-Chloroethoxy)methan e (aq)	<1 µg/l	TM176	<10	<50	<50			
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<20	<100	<100			
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<10	<50	<50			
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<10	<50	<50			
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<10	<50	<50			
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<10	<50	<50			

Order Number:	CD0123
Report Number:	129838
Superseded Report:	129412

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CERTIFICATE OF ANALYSIS

SDG: 110513-133
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0123
Report Number: 129838
Superseded Report: 129412

TPH CWG (S)

Results Legend			Customer Sample R		DVP 52	DVP 52	DVP 53	DVP 53	DVP 53	DVP 53
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.40	1.20	0.50	1.40	1.80	2.20
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
S	Non-conforming work.				12/05/2011	12/05/2011	12/05/2011	12/05/2011	12/05/2011	12/05/2011
aq	Aqueous / settled sample.				12/05/2011	12/05/2011	12/05/2011	12/05/2011	12/05/2011	12/05/2011
diss.filt	Dissolved / filtered sample.				110513-133	110513-133	110513-133	110513-133	110513-133	110513-133
tot.unfilt	Total / unfiltered sample.				3449089	3449091	3449094	3449096	3449097	3449098
*	Subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F)	Trigger breach confirmed									
Component	LOD/Units	Method								
GRO Surrogate % recovery**	%	TM089			62	43	27	5	3	17
GRO >C5-C12	<44 µg/kg	TM089			20100	17800	2390	1460	1480	6580
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		#	<5	<5	<5	<5	<5	<5
Benzene	<10 µg/kg	TM089		M	<10	<10	<10	<10	<10	<10
Toluene	<2 µg/kg	TM089		M	<2	<2	17.1	16.1	26.9	
Ethylbenzene	<3 µg/kg	TM089		M	<3	<3	4.26	<3	12.3	
m,p-Xylene	<6 µg/kg	TM089		M	<6	<6	21.3	24.2	115	
o-Xylene	<3 µg/kg	TM089		M	<3	<3	20.3	16.1	54.9	
m,p,o-Xylene	<10 µg/kg	TM089			<10	<10	41.6	40.3	170	
BTEX, Total	<10 µg/kg	TM089			<10	<10	62.9	56.4	209	
Aliphatics >C5-C6	<10 µg/kg	TM089			65.5	596	60.5	189	256	998
Aliphatics >C6-C8	<10 µg/kg	TM089			990	3750	340	634	665	2810
Aliphatics >C8-C10	<10 µg/kg	TM089			4860	4750	519	212	193	937
Aliphatics >C10-C12	<10 µg/kg	TM089			6570	3320	671	133	110	599
Aliphatics >C12-C16	<100 µg/kg	TM173			104000	20500	60200	21500	15400	130000
Aliphatics >C16-C21	<100 µg/kg	TM173			182000	108000	257000	162000	107000	303000
Aliphatics >C21-C35	<100 µg/kg	TM173			1060000	1040000	6720000	4670000	2270000	5500000
Aliphatics >C35-C44	<100 µg/kg	TM173			352000	68700	1750000	4000000	2100000	2260000
Total Aliphatics >C12-C44	<100 µg/kg	TM173			1690000	1230000	8790000	8850000	4490000	8190000
Aromatics >EC5-EC7	<10 µg/kg	TM089			<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089			<10	<10	<10	17.1	16.1	26.9
Aromatics >EC8-EC10	<10 µg/kg	TM089			3240	3170	346	188	170	806
Aromatics >EC10-EC12	<10 µg/kg	TM089			4380	2210	447	88.5	73.5	399
Aromatics >EC12-EC16	<100 µg/kg	TM173			<100	56800	22300	71400	76000	38100
Aromatics >EC16-EC21	<100 µg/kg	TM173			90300	608000	91200	531000	712000	171000
Aromatics >EC21-EC35	<100 µg/kg	TM173			572000	4590000	1910000	12000000	11300000	2420000
Aromatics >EC35-EC44	<100 µg/kg	TM173			238000	371000	535000	10500000	10800000	1270000
Aromatics >EC40-EC44	<100 µg/kg	TM173			95400	114000	203000	4720000	5270000	565000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173			900000	5620000	2560000	23200000	22900000	3890000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173			2620000	6870000	11300000	32000000	27400000	12100000
Total Aliphatics >C5-35	<100 µg/kg	TM173			1360000	1180000	7040000	4850000	2390000	5940000
Total Aromatics >C5-35	<100 µg/kg	TM173			670000	5260000	2020000	12600000	12100000	2630000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173			2020000	6430000	9060000	17500000	14400000	8570000



CERTIFICATE OF ANALYSIS

SDG: 110513-133
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0123
Report Number: 129838
Superseded Report: 129412

TPH CWG (S)

Results Legend			Customer Sample R		DVP 54	DVP 54	DVP 54	DVP 55	DVP 55	DVP 55
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference			0.20	2.00	3.20	0.50	1.40	2.00
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
S	Non-conforming work.				12/05/2011	12/05/2011	12/05/2011	12/05/2011	12/05/2011	12/05/2011
aq	Aqueous / settled sample.				12/05/2011	12/05/2011	12/05/2011	12/05/2011	12/05/2011	12/05/2011
diss.filt	Dissolved / filtered sample.				110513-133	110513-133	110513-133	110513-133	110513-133	110513-133
tot.unfilt	Total / unfiltered sample.				3449100	3449102	3449104	3449106	3449107	3449108
*	Subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F)	Trigger breach confirmed									
Component	LOD/Units	Method								
GRO Surrogate % recovery**	%	TM089			48	56	103	35	13	27
GRO >C5-C12	<44 µg/kg	TM089			793	1710	<44	12300	4790	11800
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		#	<5	<5	<5	<5	<5	<5
Benzene	<10 µg/kg	TM089		M	<10	<10	<10	22.4	<10	<10
Toluene	<2 µg/kg	TM089		M	4.48	3.42	2.26	<2	<2	<2
Ethylbenzene	<3 µg/kg	TM089		M	14.6	4.56	5.65	<3	<3	<3
m,p-Xylene	<6 µg/kg	TM089		M	<6	<6	<6	<6	<6	<6
o-Xylene	<3 µg/kg	TM089		M	<3	<3	<3	<3	<3	<3
m,p,o-Xylene	<10 µg/kg	TM089			<10	<10	<10	<10	<10	<10
BTEX, Total	<10 µg/kg	TM089			19	<10	<10	22.4	<10	<10
Aliphatics >C5-C6	<10 µg/kg	TM089			12.3	38.8	<10	75.5	365	270
Aliphatics >C6-C8	<10 µg/kg	TM089			47	77.5	<10	1070	2270	3920
Aliphatics >C8-C10	<10 µg/kg	TM089			123	295	<10	2920	819	2950
Aliphatics >C10-C12	<10 µg/kg	TM089			305	658	<10	3750	477	1610
Aliphatics >C12-C16	<100 µg/kg	TM173			17000	63000	3460	186000	10200	26900
Aliphatics >C16-C21	<100 µg/kg	TM173			78300	199000	1980	385000	52300	84400
Aliphatics >C21-C35	<100 µg/kg	TM173			1280000	963000	19400	926000	1440000	965000
Aliphatics >C35-C44	<100 µg/kg	TM173			367000	340000	923	246000	447000	228000
Total Aliphatics >C12-C44	<100 µg/kg	TM173			1750000	1570000	25700	1740000	1950000	1300000
Aromatics >EC5-EC7	<10 µg/kg	TM089			<10	<10	<10	22.4	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089			<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089			96.3	202	<10	1940	545	1970
Aromatics >EC10-EC12	<10 µg/kg	TM089			204	438	<10	2500	319	1070
Aromatics >EC12-EC16	<100 µg/kg	TM173			30500	27800	5910	<100	46100	64600
Aromatics >EC16-EC21	<100 µg/kg	TM173			111000	103000	627	214000	321000	437000
Aromatics >EC21-EC35	<100 µg/kg	TM173			1300000	600000	659	594000	8040000	5180000
Aromatics >EC35-EC44	<100 µg/kg	TM173			417000	201000	<100	229000	3460000	816000
Aromatics >EC40-EC44	<100 µg/kg	TM173			140000	74600	<100	98400	1100000	296000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173			1860000	932000	7200	1040000	11900000	6500000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173			3610000	2500000	33000	2790000	13800000	7810000
Total Aliphatics >C5-35	<100 µg/kg	TM173			1380000	1230000	24800	1500000	1500000	1090000
Total Aromatics >C5-35	<100 µg/kg	TM173			1440000	731000	7210	813000	8400000	5680000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173			2820000	1960000	32000	2320000	9910000	6770000



CERTIFICATE OF ANALYSIS

SDG: 110513-133
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0123
Report Number: 129838
Superseded Report: 129412

TPH CWG (S)

Results Legend		Customer Sample R	DVP 56		DVP 56			
#	ISO17025 accredited.							
M	mCERTS accredited.							
§	Non-conforming work.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	64	60				
GRO >C5-C12	<44 µg/kg	TM089	20800	36300				
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5 #	<5 #				
Benzene	<10 µg/kg	TM089	<10 M	<10 M				
Toluene	<2 µg/kg	TM089	<2 M	<2 M				
Ethylbenzene	<3 µg/kg	TM089	<3 M	<3 M				
m,p-Xylene	<6 µg/kg	TM089	<6 M	<6 M				
o-Xylene	<3 µg/kg	TM089	<3 M	<3 M				
m,p,o-Xylene	<10 µg/kg	TM089	<10	<10				
BTEX, Total	<10 µg/kg	TM089	<10	<10				
Aliphatics >C5-C6	<10 µg/kg	TM089	296	576				
Aliphatics >C6-C8	<10 µg/kg	TM089	1180	3390				
Aliphatics >C8-C10	<10 µg/kg	TM089	3810	8260				
Aliphatics >C10-C12	<10 µg/kg	TM089	7750	11100				
Aliphatics >C12-C16	<100 µg/kg	TM173	181000	196000				
Aliphatics >C16-C21	<100 µg/kg	TM173	157000	250000				
Aliphatics >C21-C35	<100 µg/kg	TM173	517000	403000				
Aliphatics >C35-C44	<100 µg/kg	TM173	137000	73500				
Total Aliphatics >C12-C44	<100 µg/kg	TM173	992000	922000				
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10				
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10				
Aromatics >EC8-EC10	<10 µg/kg	TM089	2540	5510				
Aromatics >EC10-EC12	<10 µg/kg	TM089	5170	7420				
Aromatics >EC12-EC16	<100 µg/kg	TM173	80700	84500				
Aromatics >EC16-EC21	<100 µg/kg	TM173	72800	53400				
Aromatics >EC21-EC35	<100 µg/kg	TM173	295000	121000				
Aromatics >EC35-EC44	<100 µg/kg	TM173	105000	32300				
Aromatics >EC40-EC44	<100 µg/kg	TM173	45900	10000				
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	554000	291000				
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1570000	1250000				
Total Aliphatics >C5-35	<100 µg/kg	TM173	868000	872000				
Total Aromatics >C5-35	<100 µg/kg	TM173	457000	272000				
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173	1320000	1140000				

Order Number:	CD0123
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Superseded Report:	129412

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CERTIFICATE OF ANALYSIS

SDG: 110513-133
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0123
Report Number: 129838
Superseded Report: 129412

VOC MS (S)

Results Legend		Customer Sample R Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	DVP 52	DVP 52	DVP 53	DVP 53	DVP 53	DVP 54
#	ISO17025 accredited.		0.40	1.20	0.50	1.40	1.80	2.00
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
S	Non-conforming work.		12/05/2011	12/05/2011	12/05/2011	12/05/2011	12/05/2011	12/05/2011
aq	Aqueous / settled sample.		12/05/2011	12/05/2011	12/05/2011	12/05/2011	12/05/2011	12/05/2011
diss.filt	Dissolved / filtered sample.		110513-133	110513-133	110513-133	110513-133	110513-133	110513-133
tot.unfilt	Total / unfiltered sample.		3449089	3449091	3449094	3449096	3449097	3449102
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
Component	LOD/Units	Method						
Dibromofluoromethane**	%	TM116	110	77.3	81.4	109	110	106
Toluene-d8**	%	TM116	99.4	82.4	75	84	70.5	87.3
4-Bromofluorobenzene**	%	TM116	139	168	177	174	213	164
Dichlorodifluoromethane	<4 µg/kg	TM116	<4	<4	<4	<80	<80	<4
Chloromethane	<7 µg/kg	TM116	<7	<7	<7	<140	<140	<7
Vinyl Chloride	<10 µg/kg	TM116	<10	<10	<10	<200	1570	<10
Bromomethane	<13 µg/kg	TM116	<13	<13	<13	<260	<260	<13
Chloroethane	<14 µg/kg	TM116	<14	<14	<14	<280	<280	<14
Trichlorofluoromethane	<6 µg/kg	TM116	21.8	<6	<6	<120	<120	<6
1,1-Dichloroethene	<10 µg/kg	TM116	<10	<10	<10	<200	829	<10
Carbon Disulphide	<7 µg/kg	TM116	47	37.9	36.8	<140	167	15.3
Dichloromethane	<10 µg/kg	TM116	13.9	<10	<10	<200	<200	<10
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116	<11	<11	<11	<220	<220	<11
trans-1-2-Dichloroethene	<11 µg/kg	TM116	<11	<11	<11	<220	<220	<11
1,1-Dichloroethane	<8 µg/kg	TM116	<8	<8	<8	<160	<160	<8
cis-1-2-Dichloroethene	<5 µg/kg	TM116	<5	<5	<5	<100	<100	<5
2,2-Dichloropropane	<12 µg/kg	TM116	<12	<12	<12	<240	<240	<12
Bromochloromethane	<14 µg/kg	TM116	<14	<14	<14	<280	<280	<14
Chloroform	<8 µg/kg	TM116	<8	<8	<8	<160	<160	<8
1,1,1-Trichloroethane	<7 µg/kg	TM116	<7	<7	<7	<140	<140	<7
1,1-Dichloropropene	<11 µg/kg	TM116	<11	<11	<11	<220	<220	<11
Carbontetrachloride	<14 µg/kg	TM116	<14	<14	<14	<280	<280	<14
1,2-Dichloroethane	<5 µg/kg	TM116	363	<5	120	<100	<100	26.2
Benzene	<9 µg/kg	TM116	10.9	<9	<9	<180	<180	<9
Trichloroethene	<9 µg/kg	TM116	<9	<9	<9	<180	<180	<9
1,2-Dichloropropane	<12 µg/kg	TM116	<12	<12	<12	<240	<240	<12
Dibromomethane	<9 µg/kg	TM116	<9	<9	<9	<180	<180	<9
Bromodichloromethane	<7 µg/kg	TM116	<7	<7	<7	<140	<140	<7
cis-1-3-Dichloropropene	<14 µg/kg	TM116	<14	<14	<14	<280	<280	<14
Toluene	<5 µg/kg	TM116	7.09	25.7	13.5	216	373	7.36
trans-1-3-Dichloropropene	<14 µg/kg	TM116	<14	<14	<14	<280	<280	<14
1,1,2-Trichloroethane	<10 µg/kg	TM116	<10	<10	<10	<200	<200	<10
1,3-Dichloropropane	<7 µg/kg	TM116	<7	<7	<7	<140	<140	<7
Tetrachloroethene	<5 µg/kg	TM116	<5	<5	<5	<100	<100	<5
Dibromochloromethane	<13 µg/kg	TM116	<13	<13	<13	<260	<260	<13



CERTIFICATE OF ANALYSIS

SDG: 110513-133
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0123
Report Number: 129838
Superseded Report: 129412

VOC MS (S)

Results Legend		Customer Sample R Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	DVP 52 0.40 Soil/Solid 12/05/2011 12/05/2011 110513-133 3449089	DVP 52 1.20 Soil/Solid 12/05/2011 12/05/2011 110513-133 3449091	DVP 53 0.50 Soil/Solid 12/05/2011 12/05/2011 110513-133 3449094	DVP 53 1.40 Soil/Solid 12/05/2011 12/05/2011 110513-133 3449096	DVP 53 1.80 Soil/Solid 12/05/2011 12/05/2011 110513-133 3449097	DVP 54 2.00 Soil/Solid 12/05/2011 12/05/2011 110513-133 3449102
#	ISO17025 accredited.							
M	mCERTS accredited.							
S	Non-conforming work.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
Component	LOD/Units	Method						
1,2-Dibromoethane	<12 µg/kg	TM116	<12 M	<12 M	<12 M	<240 M	<240 M	<12 M
Chlorobenzene	<5 µg/kg	TM116	<5 M	<5 M	<5 M	<100 M	<100 M	<5 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116	<10 M	<10 M	<10 M	<200 M	<200 M	<10 M
Ethylbenzene	<4 µg/kg	TM116	9.99 M	132 M	48.5 M	279 M	246 M	22.6 M
p/m-Xylene	<14 µg/kg	TM116	21.4 #	507 #	<14 #	597 #	747 #	<14 #
o-Xylene	<10 µg/kg	TM116	<10 M	247 M	<10 M	384 M	442 M	<10 M
Styrene	<10 µg/kg	TM116	<10 M	<10 M	47 M	<200 M	<200 M	<10 M
Bromoform	<10 µg/kg	TM116	<10 M	<10 M	<10 M	<200 M	<200 M	<10 M
Isopropylbenzene	<5 µg/kg	TM116	<5 M	<5 M	<5 M	<100 M	<100 M	<5 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116	<10 #	<10 #	<10 #	<200 #	<200 #	<10 #
1,2,3-Trichloropropane	<17 µg/kg	TM116	<17 M	<17 M	<17 M	<340 M	<340 M	<17 M
Bromobenzene	<10 µg/kg	TM116	<10 M	<10 M	<10 M	<200 M	<200 M	<10 M
Propylbenzene	<11 µg/kg	TM116	<11 M	109 M	<11 M	<220 M	<220 M	<11 M
2-Chlorotoluene	<9 µg/kg	TM116	<9 M	<9 M	<9 M	<180 M	<180 M	<9 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116	<8 #	435 #	<8 #	223 #	<160 #	<8 #
4-Chlorotoluene	<12 µg/kg	TM116	<12 M	<12 M	<12 M	<240 M	<240 M	<12 M
tert-Butylbenzene	<12 µg/kg	TM116	<12 #	<12 #	<12 #	<240 #	<240 #	<12 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116	<9 #	2350 #	<9 #	835 #	900 #	<9 #
sec-Butylbenzene	<10 µg/kg	TM116	<10 M	<10 M	<10 M	<200 M	<200 M	<10 M
4-Isopropyltoluene	<11 µg/kg	TM116	<11 M	<11 M	<11 M	<220 M	<220 M	<11 M
1,3-Dichlorobenzene	<6 µg/kg	TM116	<6 M	<6 M	<6 M	<120 M	<120 M	<6 M
1,4-Dichlorobenzene	<5 µg/kg	TM116	<5 M	<5 M	<5 M	<100 M	<100 M	<5 M
n-Butylbenzene	<10 µg/kg	TM116	<10 M	<10 M	<10 M	<200 M	<200 M	<10 M
1,2-Dichlorobenzene	<12 µg/kg	TM116	<12 M	<12 M	<12 M	<240 M	<240 M	<12 M
1,2-Dibromo-3-chloropropene	<14 µg/kg	TM116	<14 M	<14 M	<14 M	<280 M	<280 M	<14 M
Tert-amyl methyl ether	<15 µg/kg	TM116	<15	<15	<15	<300	<300	<15
1,2,4-Trichlorobenzene	<6 µg/kg	TM116	<6 #	<6 #	<6 #	<120 #	<120 #	<6 #
Hexachlorobutadiene	<12 µg/kg	TM116	<12	<12	<12	<240	<240	<12
Naphthalene	<13 µg/kg	TM116	<13 M	516 M	<13 M	<260 M	<260 M	<13 M
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<6 M	<6 M	<6 M	<120 M	<120 M	<6 M



CERTIFICATE OF ANALYSIS

SDG: 110513-133
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0123
Report Number: 129838
Superseded Report: 129412

VOC MS (S)

Results Legend			Customer Sample R		DVP 55	DVP 55	DVP 55	DVP 56		
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50	1.40	2.00	0.50		
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
S	Non-conforming work.				12/05/2011	12/05/2011	12/05/2011	12/05/2011		
aq	Aqueous / settled sample.				12/05/2011	12/05/2011	12/05/2011	12/05/2011		
diss.filt	Dissolved / filtered sample.				110513-133	110513-133	110513-133	110513-133		
tot.unfilt	Total / unfiltered sample.				3449106	3449107	3449108	3449110		
*	Subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery									
(F)	Trigger breach confirmed									
Component	LOD/Units	Method								
Dibromofluoromethane**	%	TM116			94.4	106	108	106		
Toluene-d8**	%	TM116			85.8	102	103	90.5		
4-Bromofluorobenzene**	%	TM116			154	155	116	138		
Dichlorodifluoromethane	<4 µg/kg	TM116			<4	<80	<80	<4		
Chloromethane	<7 µg/kg	TM116			<7	<140	<140	<7		
Vinyl Chloride	<10 µg/kg	TM116			<10	<200	<200	<10		
Bromomethane	<13 µg/kg	TM116			<13	<260	<260	<13		
Chloroethane	<14 µg/kg	TM116			<14	<280	<280	<14		
Trichlorofluoromethane	<6 µg/kg	TM116			24	<120	<120	<6		
1,1-Dichloroethene	<10 µg/kg	TM116			<10	<200	<200	<10		
Carbon Disulphide	<7 µg/kg	TM116			90.2	172	<140	34.9		
Dichloromethane	<10 µg/kg	TM116			<10	<200	<200	<10		
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116			<11	<220	<220	<11		
trans-1-2-Dichloroethene	<11 µg/kg	TM116			<11	<220	<220	<11		
1,1-Dichloroethane	<8 µg/kg	TM116			13.3	<160	<160	<8		
cis-1-2-Dichloroethene	<5 µg/kg	TM116			<5	<100	<100	<5		
2,2-Dichloropropane	<12 µg/kg	TM116			<12	<240	<240	<12		
Bromochloromethane	<14 µg/kg	TM116			<14	<280	<280	<14		
Chloroform	<8 µg/kg	TM116			<8	<160	<160	<8		
1,1,1-Trichloroethane	<7 µg/kg	TM116			20.1	<140	<140	12.7		
1,1-Dichloropropene	<11 µg/kg	TM116			<11	<220	<220	<11		
Carbontetrachloride	<14 µg/kg	TM116			<14	<280	<280	<14		
1,2-Dichloroethane	<5 µg/kg	TM116			145	4010	555	96.3		
Benzene	<9 µg/kg	TM116			26.6	<180	<180	26.8		
Trichloroethene	<9 µg/kg	TM116			<9	<180	<180	<9		
1,2-Dichloropropane	<12 µg/kg	TM116			<12	<240	<240	<12		
Dibromomethane	<9 µg/kg	TM116			<9	<180	<180	<9		
Bromodichloromethane	<7 µg/kg	TM116			<7	<140	<140	<7		
cis-1-3-Dichloropropene	<14 µg/kg	TM116			<14	<280	<280	<14		
Toluene	<5 µg/kg	TM116			10.4	<100	<100	<5		
trans-1-3-Dichloropropene	<14 µg/kg	TM116			<14	<280	<280	<14		
1,1,2-Trichloroethane	<10 µg/kg	TM116			<10	<200	<200	<10		
1,3-Dichloropropane	<7 µg/kg	TM116			<7	<140	<140	<7		
Tetrachloroethene	<5 µg/kg	TM116			<5	<100	<100	<5		
Dibromochloromethane	<13 µg/kg	TM116			<13	<260	<260	<13		



CERTIFICATE OF ANALYSIS

SDG: 110513-133
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0123
Report Number: 129838
Superseded Report: 129412

VOC MS (S)

Results Legend		Customer Sample R	DVP 55	DVP 55	DVP 55	DVP 56		
#	ISO17025 accredited.							
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50 Soil/Solid 12/05/2011 12/05/2011 110513-133 3449106	1.40 Soil/Solid 12/05/2011 12/05/2011 110513-133 3449107	2.00 Soil/Solid 12/05/2011 12/05/2011 110513-133 3449108	0.50 Soil/Solid 12/05/2011 12/05/2011 110513-133 3449110		
S	Non-conforming work.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery							
(F)	Trigger breach confirmed							
Component	LOD/Units	Method						
1.2-Dibromoethane	<12 µg/kg	TM116	<12 M	<240 M	<240 M	<12 M		
Chlorobenzene	<5 µg/kg	TM116	<5 M	<100 M	<100 M	<5 M		
1.1.1.2-Tetrachloroethane	<10 µg/kg	TM116	<10 M	<200 M	<200 M	<10 M		
Ethylbenzene	<4 µg/kg	TM116	8.07 M	95.6 M	<80 M	8.29 M		
p/m-Xylene	<14 µg/kg	TM116	17.2 #	<280 #	<280 #	18.3 #		
o-Xylene	<10 µg/kg	TM116	<10 M	<200 M	<200 M	<10 M		
Styrene	<10 µg/kg	TM116	<10 M	<200 M	<200 M	<10 M		
Bromoform	<10 µg/kg	TM116	<10 M	<200 M	<200 M	<10 M		
Isopropylbenzene	<5 µg/kg	TM116	<5 M	<100 M	<100 M	<5 M		
1.1.2.2-Tetrachloroethane	<10 µg/kg	TM116	<10 #	<200 #	<200 #	<10 #		
1.2.3-Trichloropropane	<17 µg/kg	TM116	<17 M	<340 M	<340 M	<17 M		
Bromobenzene	<10 µg/kg	TM116	<10 M	<200 M	<200 M	<10 M		
Propylbenzene	<11 µg/kg	TM116	<11 M	<220 M	<220 M	<11 M		
2-Chlorotoluene	<9 µg/kg	TM116	<9 M	<180 M	<180 M	<9 M		
1.3.5-Trimethylbenzene	<8 µg/kg	TM116	<8 #	<160 #	<160 #	<8 #		
4-Chlorotoluene	<12 µg/kg	TM116	<12 M	<240 M	<240 M	<12 M		
tert-Butylbenzene	<12 µg/kg	TM116	<12 #	<240 #	<240 #	<12 #		
1.2.4-Trimethylbenzene	<9 µg/kg	TM116	69.9 #	700 #	<180 #	<9 #		
sec-Butylbenzene	<10 µg/kg	TM116	<10 M	<200 M	<200 M	<10 M		
4-Isopropyltoluene	<11 µg/kg	TM116	<11 M	<220 M	<220 M	<11 M		
1.3-Dichlorobenzene	<6 µg/kg	TM116	<6 M	<120 M	<120 M	<6 M		
1.4-Dichlorobenzene	<5 µg/kg	TM116	<5 M	<100 M	<100 M	<5 M		
n-Butylbenzene	<10 µg/kg	TM116	<10 M	<200 M	<200 M	<10 M		
1.2-Dichlorobenzene	<12 µg/kg	TM116	<12 M	<240 M	<240 M	<12 M		
1.2-Dibromo-3-chloropropene	<14 µg/kg	TM116	<14 M	<280 M	<280 M	<14 M		
Tert-amyl methyl ether	<15 µg/kg	TM116	<15	<300	<300	<15		
1.2.4-Trichlorobenzene	<6 µg/kg	TM116	<6 #	<120 #	<120 #	<6 #		
Hexachlorobutadiene	<12 µg/kg	TM116	<12	<240	<240	<12		
Naphthalene	<13 µg/kg	TM116	<13 M	<260 M	<260 M	<13 M		
1.2.3-Trichlorobenzene	<6 µg/kg	TM116	<6 M	<120 M	<120 M	<6 M		



CERTIFICATE OF ANALYSIS

SDG: 110513-133
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0123
Report Number: 129838
Superseded Report: 129412

VOC MS (W)

Results Legend			Customer Sample R	DVPW 52	DVPW 53	DVPW 55			
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference							
M	mCERTS accredited.								
S	Non-conforming work.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	Subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery								
(F)	Trigger breach confirmed								
Component	LOD/Units	Method							
Dibromofluoromethane**	%	TM208	105	109	108				
Toluene-d8**	%	TM208	98.7	42	42.7				
4-Bromofluorobenzene**	%	TM208	91.2	44.6	47.2				
Dichlorodifluoromethane	<7 µg/l	TM208	<7	<7	<7				
Chloromethane	<9 µg/l	TM208	<9	<9	<9				
Vinyl chloride	<1.2 µg/l	TM208	1.31	321	203				
Bromomethane	<2 µg/l	TM208	<2	<2	<2				
Chloroethane	<2.5 µg/l	TM208	<2.5	5.14	<2.5				
Trichlorofluoromethane	<1.3 µg/l	TM208	<1.3	<1.3	<1.3				
1,1-Dichloroethene	<1.2 µg/l	TM208	<1.2	59.8	64.8				
Carbon disulphide	<1.3 µg/l	TM208	<1.3	2.94	13.1				
Dichloromethane	<3.7 µg/l	TM208	<3.7	<3.7	<3.7				
Methyl tertiary butyl ether (MTBE)	<1.6 µg/l	TM208	<1.6	<1.6	<1.6				
trans-1,2-Dichloroethene	<1.9 µg/l	TM208	<1.9	<1.9	<1.9				
1,1-Dichloroethane	<1.2 µg/l	TM208	<1.2	<1.2	17.8				
cis-1,2-Dichloroethene	<2.3 µg/l	TM208	<2.3	<2.3	<2.3				
2,2-Dichloropropane	<3.8 µg/l	TM208	<3.8	<3.8	<3.8				
Bromochloromethane	<1.9 µg/l	TM208	<1.9	<1.9	<1.9				
Chloroform	<1.8 µg/l	TM208	<1.8	<1.8	<1.8				
1,1,1-Trichloroethane	<1.3 µg/l	TM208	<1.3	<1.3	<1.3				
1,1-Dichloropropene	<1.3 µg/l	TM208	<1.3	<1.3	<1.3				
Carbontetrachloride	<1.4 µg/l	TM208	<1.4	<1.4	<1.4				
1,2-Dichloroethane	<3.3 µg/l	TM208	35.6	3770	14700				
Benzene	<1.3 µg/l	TM208	<1.3	<1.3	<1.3				
Trichloroethene	<2.5 µg/l	TM208	<2.5	8.85	20.8				
1,2-Dichloropropane	<3 µg/l	TM208	<3	<3	<3				
Dibromomethane	<2.7 µg/l	TM208	<2.7	<2.7	<2.7				
Bromodichloromethane	<0.9 µg/l	TM208	<0.9	<0.9	<0.9				
cis-1,3-Dichloropropene	<1.9 µg/l	TM208	<1.9	<1.9	<1.9				
Toluene	<1.4 µg/l	TM208	4.38	14.1	<1.4				
trans-1,3-Dichloropropene	<3.5 µg/l	TM208	<3.5	<3.5	<3.5				
1,1,2-Trichloroethane	<2.2 µg/l	TM208	<2.2	<2.2	<2.2				
1,3-Dichloropropane	<2.2 µg/l	TM208	<2.2	<2.2	<2.2				
Tetrachloroethene	<1.5 µg/l	TM208	<1.5	1.9	5.76				
Dibromochloromethane	<1.7 µg/l	TM208	<1.7	<1.7	<1.7				



CERTIFICATE OF ANALYSIS

SDG: 110513-133
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0123
Report Number: 129838
Superseded Report: 129412

VOC MS (W)

Results Legend			Customer Sample R			DVPW 52			DVPW 53			DVPW 55					
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference			1.20 Saline A 12/05/2011 12/05/2011 110513-133 3449092			1.70 Saline A 12/05/2011 12/05/2011 110513-133 3449099			1.60 Saline A 12/05/2011 12/05/2011 110513-133 3449109					
M	mCERTS accredited.																
\$	Non-conforming work.																
aq	Aqueous / settled sample.																
diss.filt	Dissolved / filtered sample.																
tot.unfilt	Total / unfiltered sample.																
*	Subcontracted test.																
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery																
(F)	Trigger breach confirmed																
Component	LOD/Units	Method															
1,2-Dibromoethane	<2.3 µg/l	TM208				<2.3	#		<2.3	\$		<2.3	\$				
Chlorobenzene	<3.5 µg/l	TM208				<3.5	#		<3.5	\$		<3.5	\$				
1,1,1,2-Tetrachloroethane	<1.3 µg/l	TM208				<1.3	#		<1.3	\$		<1.3	\$				
Ethylbenzene	<2.5 µg/l	TM208				5.85	#		26.8	\$		34.5	\$				
m,p-Xylene	<2.5 µg/l	TM208				17.3	#		131	\$		69.8	\$				
o-Xylene	<1.7 µg/l	TM208				12	#		60.9	\$		39.5	\$				
Styrene	<1.2 µg/l	TM208				<1.2	#		<1.2	\$		<1.2	\$				
Bromoform	<3 µg/l	TM208				<3	#		<3	\$		<3	\$				
Isopropylbenzene	<1.4 µg/l	TM208				<1.4	#		<1.4	\$		13.8	\$				
1,1,2,2-Tetrachloroethane	<5.2 µg/l	TM208				<5.2			<5.2	\$		<5.2	\$				
1,2,3-Trichloropropane	<7.8 µg/l	TM208				<7.8	#		<7.8	\$		<7.8	\$				
Bromobenzene	<2 µg/l	TM208				<2	#		<2	\$		<2	\$				
Propylbenzene	<2.6 µg/l	TM208				<2.6	#		4.72	\$		14.3	\$				
2-Chlorotoluene	<1.9 µg/l	TM208				<1.9	#		<1.9	\$		<1.9	\$				
1,3,5-Trimethylbenzene	<1.8 µg/l	TM208				8.02	#		28.8	\$		28	\$				
4-Chlorotoluene	<1.9 µg/l	TM208				<1.9	#		<1.9	\$		<1.9	\$				
tert-Butylbenzene	<2 µg/l	TM208				<2	#		<2	\$		<2	\$				
1,2,4-Trimethylbenzene	<1.7 µg/l	TM208				12.8	#		31.7	\$		33.9	\$				
sec-Butylbenzene	<1.7 µg/l	TM208				<1.7	#		<1.7	\$		11	\$				
4-iso-Propyltoluene	<2.6 µg/l	TM208				<2.6	#		<2.6	\$		<2.6	\$				
1,3-Dichlorobenzene	<2.2 µg/l	TM208				<2.2	#		<2.2	\$		<2.2	\$				
1,4-Dichlorobenzene	<2.7 µg/l	TM208				<2.7	#		<2.7	\$		<2.7	\$				
n-Butylbenzene	<2 µg/l	TM208				<2	#		<2	\$		<2	\$				
1,2-Dichlorobenzene	<3.7 µg/l	TM208				<3.7			<3.7	\$		<3.7	\$				
1,2-Dibromo-3-chloropropene	<9.8 µg/l	TM208				<9.8			<9.8	\$		<9.8	\$				
1,2,4-Trichlorobenzene	<2.3 µg/l	TM208				<2.3	#		<2.3	\$		<2.3	\$				
Hexachlorobutadiene	<2.5 µg/l	TM208				<2.5	#		<2.5	\$		<2.5	\$				
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208				<1	#		<1	\$		<1	\$				
Naphthalene	<3.5 µg/l	TM208				8.15	#		<3.5	\$		<3.5	\$				
1,2,3-Trichlorobenzene	<3.1 µg/l	TM208				<3.1	#		<3.1	\$		<3.1	\$				
1,3,5-Trichlorobenzene	<10 µg/l	TM208				<10			<10	\$		<10	\$				



SDG:	110513-133	Location:	Coed Darcy Urban Village	Order Number:	CD0123
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	129838
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	129412

Notification of Non-Conforming Work

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	1,1,1,2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	1,1,1-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	1,1,2,2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	1,1,2-Trichloro-1,2,2-trifluoroethane (TIC)	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	1,1,2-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	1,1-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	1,1-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	1,1-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	1,2,3-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	1,2,3-Trichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	1,2,4-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	1,2,4-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	1,2-Dibromo-3-chloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	1,2-Dibromoethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	1,2-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	1,2-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	1,2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	1,3,5-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	1,3,5-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	1,3-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	1,3-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	1,4-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	2,2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	2-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110513-133	Location:	Coed Darcy Urban Village	Order Number:	CD0123
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	129838
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	129412

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	4-Bromofluorobenzene**	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	4-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	4-iso-Propyltoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Benzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Bromobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Bromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Bromodichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Bromoform	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Bromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Carbon disulphide	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Carbontetrachloride	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Chlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Chloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Chloroform	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Chloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	cis-1,2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	cis-1,3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Dibromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Dibromofluoromethane**	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Dibromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Dichlorodifluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Dichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Dilution	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Ethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Hexachlorobutadiene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110513-133	Location:	Coed Darcy Urban Village	Order Number:	CD0123
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	129838
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	129412

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Isopropylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	LCS Reagent	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	m,p-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Methyl tertiary butyl ether (MTBE)	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Multiplier	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Naphthalene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	n-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	o-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Propylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	sec-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Styrene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	tert-Amyl methyl ether (TAME)	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	tert-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Tetrachloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	TIC Instructions	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Toluene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Toluene-d8**	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Total Xylenes	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	trans-1,2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	trans-1,3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Trichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	Vinyl chloride	Volatile Analysis performed on vessel with headspace due testing requirement
3449851	DVPW 53	1.70	SALINE_A	VOC MS (W)	VOC TIC	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	1,1,1,2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG: 110513-133
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0123
Report Number: 129838
Superseded Report: 129412

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	1,1,1-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	1,1,2,2-Tetrachloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	1,1,2-Trichloro-1,2,2-trifluoroethane (TIC)	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	1,1,2-Trichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	1,1-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	1,1-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	1,1-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	1,2,3-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	1,2,3-Trichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	1,2,4-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	1,2,4-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	1,2-Dibromo-3-chloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	1,2-Dibromoethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	1,2-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	1,2-Dichloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	1,2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	1,3,5-Trichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	1,3,5-Trimethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	1,3-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	1,3-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	1,4-Dichlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	2,2-Dichloropropane	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	2-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	4-Bromofluorobenzene**	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	4-Chlorotoluene	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110513-133	Location:	Coed Darcy Urban Village	Order Number:	CD0123
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	129838
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	129412

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	4-iso-Propyltoluene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Benzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Bromobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Bromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Bromodichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Bromoform	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Bromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Carbon disulphide	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Carbontetrachloride	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Chlorobenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Chloroethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Chloroform	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Chloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	cis-1,2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	cis-1,3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Dibromochloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Dibromofluoromethane**	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Dibromomethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Dichlorodifluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Dichloromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Dilution	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Ethylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Hexachlorobutadiene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Isopropylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	LCS Reagent	Volatile Analysis performed on vessel with headspace due testing requirement



CERTIFICATE OF ANALYSIS

SDG:	110513-133	Location:	Coed Darcy Urban Village	Order Number:	CD0123
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	129838
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	129412

Sample Number	Customer Sample Ref.	Depth (m)	Matrix	Test Name	Component Name	Comment
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	m,p-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Methyl tertiary butyl ether (MTBE)	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Multiplier	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Naphthalene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	n-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	o-Xylene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Propylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	sec-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Styrene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	tert-Amyl methyl ether (TAME)	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	tert-Butylbenzene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Tetrachloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	TIC Instructions	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Toluene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Toluene-d8**	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Total Xylenes	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	trans-1,2-Dichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	trans-1,3-Dichloropropene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Trichloroethene	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Trichlorofluoromethane	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	Vinyl chloride	Volatile Analysis performed on vessel with headspace due testing requirement
3449857	DVPW 55	1.60	SALINE_A	VOC MS (W)	VOC TIC	Volatile Analysis performed on vessel with headspace due testing requirement

Note : Test results may be invalid



SDG:	110513-133	Location:	Coed Darcy Urban Village	Order Number:	CD0123
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Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	129412

Table of Results - Appendix

REPORT KEY

NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PFD	Possible Fibres Detected	»	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM001	In - house Method	Determination of asbestos containing material by screening on solids		
TM061	Method for the Determination of EPH,Massachusetts Dept.of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM174	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID		
TM176	EPA 8270D Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of SVOCs in Water by GCMS		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM208	Modified: US EPA Method 8260b & 624	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		
TM245	By GC-FID	Determination of GRO by Headspace in waters		

¹ Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.



CERTIFICATE OF ANALYSIS

SDG: 110513-133
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0123
Report Number: 129838
Superseded Report: 129412

Test Completion Dates

Lab Sample No(s)	3449089	3449091	3449094	3449096	3449097	3449098	3449100	3449102	3449104	3449106
Customer Sample Ref.	DVP 52	DVP 52	DVP 53	DVP 53	DVP 53	DVP 53	DVP 54	DVP 54	DVP 54	DVP 55
AGS Ref.										
Depth	0.40	1.20	0.50	1.40	1.80	2.20	0.20	2.00	3.20	0.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos Containing Material Screen	13-May-2011		13-May-2011	13-May-2011		13-May-2011	18-May-2011			13-May-2011
EPH CWG (Aliphatic) GC (S)	18-May-2011	19-May-2011	19-May-2011	19-May-2011	19-May-2011	18-May-2011	19-May-2011	18-May-2011	18-May-2011	18-May-2011
EPH CWG (Aromatic) GC (S)	18-May-2011	19-May-2011	19-May-2011	19-May-2011	19-May-2011	18-May-2011	19-May-2011	18-May-2011	18-May-2011	18-May-2011
GRO by GC-FID (S)	18-May-2011	17-May-2011	17-May-2011	17-May-2011	17-May-2011	17-May-2011	18-May-2011	17-May-2011	20-May-2011	17-May-2011
Metals by iCap-OES (Soil)	18-May-2011	18-May-2011	18-May-2011	18-May-2011			18-May-2011			18-May-2011
PAH by GCMS							19-May-2011		19-May-2011	
pH	18-May-2011	18-May-2011	18-May-2011	18-May-2011	18-May-2011	18-May-2011	18-May-2011	18-May-2011	18-May-2011	18-May-2011
Sample description	16-May-2011	16-May-2011	16-May-2011	16-May-2011	16-May-2011	16-May-2011	16-May-2011	16-May-2011	16-May-2011	16-May-2011
Semi Volatile Organic Compounds	18-May-2011	19-May-2011	19-May-2011	19-May-2011	19-May-2011			19-May-2011		18-May-2011
Total Organic Carbon									20-May-2011	
TPH CWG GC (S)	18-May-2011	19-May-2011	19-May-2011	19-May-2011	19-May-2011	18-May-2011	19-May-2011	18-May-2011	20-May-2011	18-May-2011
VOC MS (S)	19-May-2011	18-May-2011	18-May-2011	19-May-2011	19-May-2011			18-May-2011		18-May-2011

Lab Sample No(s)	3449107	3449108	3449110	3449111	3449092	3449099	3449109
Customer Sample Ref.	DVP 55	DVP 55	DVP 56	DVP 56	DVPW 52	DVPW 53	DVPW 55
AGS Ref.							
Depth	1.40	2.00	0.50	1.50	1.20	1.70	1.60
Type	SOLID	SOLID	SOLID	SOLID	SALINE_A	SALINE_A	SALINE_A
Asbestos Containing Material Screen			13-May-2011				
EPH CWG (Aliphatic) Aqueous GC (W)					20-May-2011	20-May-2011	20-May-2011
EPH CWG (Aliphatic) GC (S)	19-May-2011	19-May-2011	18-May-2011	18-May-2011			
EPH CWG (Aromatic) Aqueous GC (W)					20-May-2011	20-May-2011	20-May-2011
EPH CWG (Aromatic) GC (S)	19-May-2011	19-May-2011	18-May-2011	18-May-2011			
GRO by GC-FID (S)	17-May-2011	17-May-2011	17-May-2011	17-May-2011			
GRO by GC-FID (W)					17-May-2011	17-May-2011	17-May-2011
Metals by iCap-OES (Soil)	18-May-2011		18-May-2011	18-May-2011			
PAH by GCMS				19-May-2011			
pH	18-May-2011	18-May-2011	18-May-2011	18-May-2011			
Sample description	16-May-2011	16-May-2011	16-May-2011	16-May-2011			
Semi Volatile Organic Compounds	18-May-2011	18-May-2011	19-May-2011				
SVOC MS (W) - Aqueous					19-May-2011	19-May-2011	19-May-2011
TPH CWG (W)					20-May-2011	20-May-2011	20-May-2011
TPH CWG GC (S)	19-May-2011	19-May-2011	18-May-2011	18-May-2011			
VOC MS (S)	19-May-2011	19-May-2011	18-May-2011				
VOC MS (W)					18-May-2011	18-May-2011	18-May-2011



SDG: 110513-133
Job: H_ATKINS_LDC-96
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Superseded Report: 129412

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA Leach tests, flash point, ammonium as NH₄ by the BRE method, VOC TICS, SVOC TICS, TOF-MS SCAN/SEARCH and TOF-MS TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for both soil jars, tubs and volatile jars. All waters and vials will be discarded 10 days after the analysis is completed (e-mailed). All material removed during an asbestos containing material screen and analysed for the presence of asbestos will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be screened in house for the presence of large asbestos containing material fragments/pieces. If no asbestos containing material is found this will be reported as 'no asbestos containing material detected'. If asbestos containing material is detected it will be removed and analysed by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If asbestos containing material is present no further analysis will be undertaken. At no point is the fibre content of the soil sample determined.

7. If no separate volatile sample is supplied by the client, the integrity of the data may be compromised if the laboratory is required to create a sub-sample from the bulk sample -similarly, if a headspace or sediment is present in the volatile sample. This will be flagged up as an invalid VOC on the test schedule or recorded on the log sheet.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials -whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C₄-C₁₀ range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

SOLID MATRICES EXTRACTION SUMMARY

ANALYSIS	D/C OR VET	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
SOLVENT EXTRACTABLE MATTER	D&C	DOM	SOX THERM	GRAVIMETRIC
CYCLOHEXANE EXT. MATTER	D&C	CYCLOHEXANE	SOX THERM	GRAVIMETRIC
THIN LAYER CHROMATOGRAPHY	D&C	DOM	SOX THERM	ATROSCAN
ELEMENTAL SULPHUR	D&C	DOM	SOX THERM	HPLC
PHENOLS BY GC/MS	VET	DOM	SOX THERM	GC/MS
HERBICIDES	D&C	HEXANE/ACETONE	SOX THERM	GC/MS
PESTICIDES	D&C	HEXANE/ACETONE	SOX THERM	GC/MS
EPH (DRO)	D&C	HEXANE/ACETONE	END OVER END	GC/FID
EPH (MIN OIL)	D&C	HEXANE/ACETONE	END OVER END	GC/FID
EPH (CLEANED UP)	D&C	HEXANE/ACETONE	END OVER END	GC/FID
EPH OAG BY GC	D&C	HEXANE/ACETONE	END OVER END	GC/FID
PCB TOT / PCB CON	D&C	HEXANE/ACETONE	END OVER END	GC/MS
POLYAROMATIC HYDROCARBONS (MS)	VET	HEXANE/ACETONE	MICROWAVE TM218	GC/MS
C8-C40 (C8-C40) EZ FLASH	VET	HEXANE/ACETONE	SHAKER	GC/EZ
POLYAROMATIC HYDROCARBONS RAPID GC	VET	HEXANE/ACETONE	SHAKER	GC/EZ
SEM VOLATILE ORGANIC COMPOUNDS	VET	DOM/ACETONE	SONICATE	GC/MS

LIQUID MATRICES EXTRACTION SUMMARY

ANALYSIS	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
PAHMS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC/MS
EPH	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC/FID
EPH OAG	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC/FID
MINERAL OIL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC/FID
PCB 7 CONGENERS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC/MS
PCB TOTAL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC/MS
SVOC	DOM	LIQUID/LIQUID SHAKE	GC/MS
FREESULPHUR	DOM	SOLID PHASE EXTRACTION	HPLC
PEST COP/OPP	DOM	LIQUID/LIQUID SHAKE	GC/MS
TRIAZINE HERB	DOM	LIQUID/LIQUID SHAKE	GC/MS
PHENOLS MS	DOM	SOLID PHASE EXTRACTION	GC/MS
TPH by INFRARED (IR)	TCE	LIQUID/LIQUID SHAKE	HPLC
MINERAL OIL by IR	TCE	LIQUID/LIQUID SHAKE	HPLC
GLYCOLS	NONE	DIRECT INJECTION	GC/MS

Identification of Asbestos in Bulk Materials

The results for asbestos identification for soil samples are obtained from possible Asbestos Containing Material, removed during the 'Screening of soils for Asbestos Containing Materials', which have been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-



Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
Coed Darcy
Llandarcy
SA10 6HJ

Attention: Alex Mann

CERTIFICATE OF ANALYSIS

Date: 03 May 2011
Customer: H_ATKINS_LDC
Sample Delivery Group (SDG): 110419-3
Your Reference: DiMe Trial Pit Validation
Location: Coed Darcy Urban Village
Report No: 127190

We received 29 samples on Tuesday April 19, 2011 and 19 of these samples were scheduled for analysis which was completed on Tuesday May 03, 2011. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Asbestos testing - we are not accredited for screening soil samples for asbestos fibres. We are only accredited to identify asbestos fibres in bulk material (ACM).

Approved By:

Sonia McWhan

Operations Manager



1291
GROUP



SDG:	110419-3	Location:	Coed Darcy Urban Village	Order Number:	CD0115
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	127190
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
3324032	DVP44		0.30	18/04/2011
3324034	DVP44		0.80	18/04/2011
3324033	DVP44		1.40	18/04/2011
3324031	DVP44		2.40	18/04/2011
3324065	DVP45		0.50	18/04/2011
3324063	DVP45		1.00	18/04/2011
3324035	DVP45		1.50	18/04/2011
3324036	DVP46		0.20	18/04/2011
3324038	DVP46		1.00	18/04/2011
3324043	DVP47		0.20	18/04/2011
3324042	DVP47		0.70	18/04/2011
3324041	DVP47		1.50	18/04/2011
3324044	DVP47		2.50	18/04/2011
3324050	DVP48		0.20	18/04/2011
3324045	DVP48		0.50	18/04/2011
3324046	DVP48		1.50	18/04/2011
3324047	DVP48		2.50	18/04/2011
3324054	DVP49		0.20	18/04/2011
3324051	DVP49		0.80	18/04/2011
3324052	DVP49		1.50	18/04/2011
3324053	DVP49		2.50	18/04/2011
3324056	DVP50		0.50	18/04/2011
3324058	DVP50		1.00	18/04/2011
3324055	DVP50		1.50	18/04/2011
3324059	DVP50		2.50	18/04/2011
3324062	DVP51		0.50	18/04/2011
3324061	DVP51		1.50	18/04/2011
3324066	DVP51		2.50	18/04/2011
3324060	DVP51		3.50	18/04/2011

Only received samples which have had analysis scheduled will be shown on the following pages.

Location: Coed Darcy Urban Village
Owner: Atkins Global Ltd
Location: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

SOLID

Results Legend

 Test

 No Detection
Possibility

Location: Coed Darcy Urban Village
Owner: Atkins Global Ltd
Location: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

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SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)		3324065	3324059	3324060	3324061	3324062
	Customer Sample Reference		DVP45	DVP50	DVP51	DVP51	DVP51
	AGS Reference						
	Depth (m)		0.50	2.50	3.50	1.50	0.50
	Container		250g Amber Jar 400g Tub	250g Amber Jar 60g VOC 400g Tub	250g Amber Jar 60g VOC 400g Tub	250g Amber Jar 60g VOC 400g Tub	60g VOC 400g Tub 250g Amber Jar 60g VOC 400g Tub
Anions by Kone (soil)	All	NDPs: 0 Tests: 4	X				
Asbestos Containing Material Screen	All	NDPs: 0 Tests: 7	X				X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 18	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 18	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 18		X	X	X	X
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 16	X		X	X	X
	Cadmium	NDPs: 0 Tests: 16	X		X	X	X
	Chromium	NDPs: 0 Tests: 16	X		X	X	X
	Copper	NDPs: 0 Tests: 16	X		X	X	X
	Lead	NDPs: 0 Tests: 16	X		X	X	X
	Mercury	NDPs: 0 Tests: 16	X		X	X	X
	Nickel	NDPs: 0 Tests: 16	X		X	X	X
	Selenium	NDPs: 0 Tests: 16	X		X	X	X
	Vanadium	NDPs: 0 Tests: 16	X		X	X	X
	Zinc	NDPs: 0 Tests: 16	X		X	X	X



SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

SOLID**Results Legend**

Test



No Determination Possible

Lab Sample No(s)**Customer Sample Reference****AGS Reference****Depth (m)****Container**

			3324065	3324059	3324060	3324061	3324062	
			DVP45	DVP50	DVP51	DVP51	DVP51	
			0.50	2.50	3.50	1.50	0.50	
			250g Amber Jar 400g Tub	250g Amber Jar 60g VOC	250g Amber Jar 60g VOC	250g Amber Jar 60g VOC	250g Amber Jar 400g Tub	60g VOC
PAH by GCMS	All	NDPs: 0 Tests: 13			X		X	
pH	All	NDPs: 0 Tests: 14	X	X		X	X	
Sample description	All	NDPs: 0 Tests: 19	X	X	X	X	X	
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 5	X			X		
Total Organic Carbon	All	NDPs: 0 Tests: 4		X				
Total Sulphate	All	NDPs: 0 Tests: 4	X					
TPH CWG GC (S)	All	NDPs: 0 Tests: 18	X	X	X	X	X	
VOC MS (S)	All	NDPs: 0 Tests: 5		X			X	



SDG:	110419-3	Location:	Coed Darcy Urban Village	Order Number:	CD0115
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	127190
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm
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Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
3324031	DVP44	2.40	Light Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Oil/Petroleum
3324032	DVP44	0.30	Dark Brown	Sand	0.1 - 2 mm	Stones	N/A
3324033	DVP44	1.40	Light Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Oil/Petroleum
3324035	DVP45	1.50	Light Brown	Loamy Sand	0.1 - 2 mm	Stones	Oil/Petroleum
3324065	DVP45	0.50	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	None
3324036	DVP46	0.20	Dark Brown	Sand	0.1 - 2 mm	Stones	N/A
3324042	DVP47	0.70	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	None
3324043	DVP47	0.20	Light Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
3324044	DVP47	2.50	Light Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
3324045	DVP48	0.50	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	None
3324046	DVP48	1.50	Dark Brown	Top Soil	0.1 - 2 mm	Stones	None
3324051	DVP49	0.80	Light Brown	Clay Loam	0.063 - 0.1 mm	Stones	None
3324052	DVP49	1.50	Light Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
3324055	DVP50	1.50	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	None
3324056	DVP50	0.50	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	None
3324059	DVP50	2.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	None
3324060	DVP51	3.50	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	Oil/Petroleum
3324061	DVP51	1.50	Light Brown	Sandy Loam	0.1 - 2 mm	Oil/Petroleum	Stones
3324062	DVP51	0.50	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	Oil/Petroleum

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

SDG:	110419-3	Location:	Coed Darcy Urban Village	Order Number:	CD0115
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	127190
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

21:49:39 03/05/2011

Order Number: CD0115
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SDG:	110419-3	Location:	Coed Darcy Urban Village	Order Number:	CD0115
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	127190
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

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CERTIFICATE OF ANALYSIS

SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Semi Volatile Organic Compounds

Results Legend		Customer Sample R	DVP45	DVP47	DVP49	DVP50	DVP51		
#	ISO17025 accredited.								
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50 Soil/Solid 18/04/2011 19/04/2011 110419-3 3324065	0.70 Soil/Solid 18/04/2011 19/04/2011 110419-3 3324042	0.80 Soil/Solid 18/04/2011 19/04/2011 110419-3 3324051	0.50 Soil/Solid 18/04/2011 19/04/2011 110419-3 3324056	1.50 Soil/Solid 18/04/2011 19/04/2011 110419-3 3324061		
S	Non-conforming work.								
aq	Aqueous / settled sample.								
diss.filt	Dissolved / filtered sample.								
tot.unfilt	Total / unfiltered sample.								
*	subcontracted test.								
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
Component									LOD/Units
Phenol		<100 µg/kg							TM157
Pentachlorophenol		<100 µg/kg	TM157						
n-Nitroso-n-dipropylamine		<100 µg/kg	TM157						
Nitrobenzene		<100 µg/kg	TM157						
Isophorone		<100 µg/kg	TM157						
Hexachloroethane		<100 µg/kg	TM157						
Hexachlorocyclopentadiene		<100 µg/kg	TM157						
Hexachlorobutadiene		<100 µg/kg	TM157						
Hexachlorobenzene		<100 µg/kg	TM157						
n-Dioctyl phthalate		<100 µg/kg	TM157						
Dimethyl phthalate		<100 µg/kg	TM157						
Diethyl phthalate		<100 µg/kg	TM157						
n-Dibutyl phthalate		<100 µg/kg	TM157						
Dibenzofuran		<100 µg/kg	TM157						
Carbazole		<100 µg/kg	TM157						
Butylbenzyl phthalate		<100 µg/kg	TM157						
bis(2-Ethylhexyl) phthalate		<100 µg/kg	TM157						
bis(2-Chloroethoxy)methane		<100 µg/kg	TM157						
bis(2-Chloroethyl)ether		<100 µg/kg	TM157						
Azobenzene		<100 µg/kg	TM157						
4-Nitrophenol		<100 µg/kg	TM157						
4-Nitroaniline		<100 µg/kg	TM157						
4-Methylphenol		<100 µg/kg	TM157						
4-Chlorophenylphenylether		<100 µg/kg	TM157						
4-Chloroaniline		<100 µg/kg	TM157						
4-Chloro-3-methylphenol		<100 µg/kg	TM157						
4-Bromophenylphenylether		<100 µg/kg	TM157						
3-Nitroaniline		<100 µg/kg	TM157						
2-Nitrophenol		<100 µg/kg	TM157						
2-Nitroaniline		<100 µg/kg	TM157						
2-Methylphenol		<100 µg/kg	TM157						
1,2,4-Trichlorobenzene		<100 µg/kg	TM157						
2-Chlorophenol		<100 µg/kg	TM157						
2,6-Dinitrotoluene		<100 µg/kg	TM157						
2,4-Dinitrotoluene		<100 µg/kg	TM157						

Order Number: CD0115
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CERTIFICATE OF ANALYSIS

SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

TPH CWG (S)

Results Legend			Customer Sample R	DVP44	DVP44	DVP44	DVP45	DVP45	DVP46	
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.30 Soil/Solid 18/04/2011	1.40 Soil/Solid 18/04/2011	2.40 Soil/Solid 18/04/2011	0.50 Soil/Solid 18/04/2011	1.50 Soil/Solid 18/04/2011	0.20 Soil/Solid 18/04/2011	
M	mCERTS accredited.		18/04/2011	18/04/2011	18/04/2011	18/04/2011	18/04/2011	18/04/2011		
S	Non-conforming work.		19/04/2011	19/04/2011	19/04/2011	19/04/2011	19/04/2011	19/04/2011		
aq	Aqueous / settled sample.		110419-3	110419-3	110419-3	110419-3	110419-3	110419-3		
diss.filt	Dissolved / filtered sample.		3324032	3324033	3324031	3324065	3324035	3324036		
tot.unfilt	Total / unfiltered sample.									
*	subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.									
Component			LOD/Units	Method						
GRO Surrogate % recovery**			%	TM089	67	99	130	118	102	108
GRO >C5-C12		<44 µg/kg	TM089	219	6260	7240	556	239	3480	
Methyl tertiary butyl ether (MTBE)		<5 µg/kg	TM089	<5 #	<5 #	<5 #	<5 #	<5 #	<5 #	
Benzene		<10 µg/kg	TM089	<10 M	<10 M	<10 M	<10 M	<10 M	<10 M	
Toluene		<2 µg/kg	TM089	2.19 M	<2 M	<2 M	4.38 M	2.24 M	<2 M	
Ethylbenzene		<3 µg/kg	TM089	<3 M	<3 M	<3 M	<3 M	3.36 M	<3 M	
m,p-Xylene		<6 µg/kg	TM089	<6 M	<6 M	<6 M	<6 M	<6 M	<6 M	
o-Xylene		<3 µg/kg	TM089	<3 M	<3 M	<3 M	<3 M	<3 M	<3 M	
m,p,o-Xylene		<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10	
BTEX, Total		<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10	
Aliphatics >C5-C6		<10 µg/kg	TM089	<10	<10	19.2	15.3	<10	54.9	
Aliphatics >C6-C8		<10 µg/kg	TM089	10.9	224	655	59.1	34.7	333	
Aliphatics >C8-C10		<10 µg/kg	TM089	28.4	1280	2110	87.6	38.1	813	
Aliphatics >C10-C12		<10 µg/kg	TM089	88.6	2340	1830	198	71.7	1040	
Aliphatics >C12-C16		<100 µg/kg	TM173	9600	17200	5870	<100	1360	67200	
Aliphatics >C16-C21		<100 µg/kg	TM173	32200	42300	13700	<100	780	122000	
Aliphatics >C21-C35		<100 µg/kg	TM173	640000	78600	98800	<100	1030	146000	
Aliphatics >C35-C44		<100 µg/kg	TM173	123000	12200	15200	<100	140	26100	
Total Aliphatics >C12-C44		<100 µg/kg	TM173	805000	150000	134000	<100	3310	362000	
Aromatics >EC5-EC7		<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10	
Aromatics >EC7-EC8		<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10	
Aromatics >EC8-EC10		<10 µg/kg	TM089	24.1	851	1400	59.1	33.6	541	
Aromatics >EC10-EC12		<10 µg/kg	TM089	59.1	1560	1220	132	48.2	694	
Aromatics >EC12-EC16		<100 µg/kg	TM173	9110	8680	4100	244	700	26600	
Aromatics >EC16-EC21		<100 µg/kg	TM173	15900	25800	8450	<100	400	56800	
Aromatics >EC21-EC35		<100 µg/kg	TM173	274000	47200	50000	<100	599	186000	
Aromatics >EC35-EC44		<100 µg/kg	TM173	95100	17600	19000	<100	183	30900	
Aromatics >EC40-EC44		<100 µg/kg	TM173	35200	7030	8380	<100	<100	12400	
Total Aromatics >EC12-EC44		<100 µg/kg	TM173	394000	99200	81600	244	1880	301000	
Total Aliphatics & Aromatics >C5-C44		<100 µg/kg	TM173	1200000	256000	222000	800	5430	666000	
Total Aliphatics >C5-35		<100 µg/kg	TM173	682000	142000	123000	359	3320	338000	
Total Aromatics >C5-35		<100 µg/kg	TM173	299000	84000	65200	441	1780	271000	
Total Aliphatics & Aromatics >C5-35		<100 µg/kg	TM173	981000	226000	188000	800	5100	609000	



CERTIFICATE OF ANALYSIS

SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

TPH CWG (S)

Results Legend			Customer Sample R		DVP47	DVP47	DVP48	DVP48	DVP49	DVP49
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.20 Soil/Solid 18/04/2011 19/04/2011 110419-3 3324043	2.50 Soil/Solid 18/04/2011 19/04/2011 110419-3 3324044	0.50 Soil/Solid 18/04/2011 19/04/2011 110419-3 3324045	1.50 Soil/Solid 18/04/2011 19/04/2011 110419-3 3324046	0.80 Soil/Solid 18/04/2011 19/04/2011 110419-3 3324051	1.50 Soil/Solid 18/04/2011 19/04/2011 110419-3 3324052		
M	mCERTS accredited.									
S	Non-conforming work.									
aq	Aqueous / settled sample.									
diss.filt	Dissolved / filtered sample.									
tot.unfilt	Total / unfiltered sample.									
*	subcontracted test.	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.								
**										
Component		LOD/Units	Method							
GRO Surrogate % recovery**		%	TM089	72	133	103	58	95	24	
GRO >C5-C12		<44 µg/kg	TM089	1030	<44	<44	<44	1360	158	
Methyl tertiary butyl ether (MTBE)		<5 µg/kg	TM089	<5 #	<5 #	<5 #	<5 #	<5 #	<5 #	
Benzene		<10 µg/kg	TM089	<10 M	<10 M	<10 M	<10 M	<10 M	<10 M	
Toluene		<2 µg/kg	TM089	<2 M	<2 M	<2 M	15.5 M	<2 M	13.4 M	
Ethylbenzene		<3 µg/kg	TM089	<3 M	<3 M	<3 M	12.2 M	<3 M	7.84 M	
m,p-Xylene		<6 µg/kg	TM089	<6 M	<6 M	<6 M	6.66 M	<6 M	<6 M	
o-Xylene		<3 µg/kg	TM089	<3 M	<3 M	<3 M	<3 M	<3 M	3.36 M	
m,p,o-Xylene		<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10	
BTEX, Total		<10 µg/kg	TM089	<10	<10	<10	34.4	<10	24.6	
Aliphatics >C5-C6		<10 µg/kg	TM089	<10	<10	<10	<10	10.1	<10	
Aliphatics >C6-C8		<10 µg/kg	TM089	18.9	<10	<10	<10	114	17.9	
Aliphatics >C8-C10		<10 µg/kg	TM089	131	<10	<10	<10	89.6	23.5	
Aliphatics >C10-C12		<10 µg/kg	TM089	466	<10	<10	<10	647	38.1	
Aliphatics >C12-C16		<100 µg/kg	TM173	17800	258	3230	1880	10500	286	
Aliphatics >C16-C21		<100 µg/kg	TM173	43500	317	<100	1450	28800	244	
Aliphatics >C21-C35		<100 µg/kg	TM173	280000	3020	<100	1250	28600	214	
Aliphatics >C35-C44		<100 µg/kg	TM173	66300	515	<100	230	6480	<100	
Total Aliphatics >C12-C44		<100 µg/kg	TM173	407000	4110	3230	4800	74400	744	
Aromatics >EC5-EC7		<10 µg/kg	TM089	<10	<10	<10	<10	<10	<10	
Aromatics >EC7-EC8		<10 µg/kg	TM089	<10	<10	<10	15.5	<10	13.4	
Aromatics >EC8-EC10		<10 µg/kg	TM089	91	<10	<10	21.1	62.7	31.4	
Aromatics >EC10-EC12		<10 µg/kg	TM089	311	<10	<10	<10	431	25.8	
Aromatics >EC12-EC16		<100 µg/kg	TM173	10300	2330	4550	2520	5670	3920	
Aromatics >EC16-EC21		<100 µg/kg	TM173	23700	2950	612	1050	16500	3440	
Aromatics >EC21-EC35		<100 µg/kg	TM173	118000	8550	<100	879	18200	3390	
Aromatics >EC35-EC44		<100 µg/kg	TM173	64400	4970	<100	2090	9750	235	
Aromatics >EC40-EC44		<100 µg/kg	TM173	26800	1790	<100	509	4520	<100	
Total Aromatics >EC12-EC44		<100 µg/kg	TM173	216000	18800	5160	6530	50100	11000	
Total Aliphatics & Aromatics >C5-C44		<100 µg/kg	TM173	624000	22900	8400	11400	126000	11900	
Total Aliphatics >C5-35		<100 µg/kg	TM173	342000	3600	3230	4570	68800	828	
Total Aromatics >C5-35		<100 µg/kg	TM173	152000	13800	5170	4490	40900	10800	
Total Aliphatics & Aromatics >C5-35		<100 µg/kg	TM173	494000	17400	8400	9060	110000	11700	



CERTIFICATE OF ANALYSIS

SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

TPH CWG (S)

Results Legend			Customer Sample R		DVP50	DVP50	DVP50	DVP51	DVP51	DVP51
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50	1.50	2.50	0.50	1.50	3.50
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
S	Non-conforming work.				18/04/2011	18/04/2011	18/04/2011	18/04/2011	18/04/2011	18/04/2011
aq	Aqueous / settled sample.				19/04/2011	19/04/2011	19/04/2011	19/04/2011	19/04/2011	19/04/2011
diss.filt	Dissolved / filtered sample.				110419-3	110419-3	110419-3	110419-3	110419-3	110419-3
tot.unfilt	Total / unfiltered sample.				3324056	3324055	3324059	3324062	3324061	3324060
*	subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.									
Component	LOD/Units	Method								
GRO Surrogate % recovery**	%	TM089			88	29	5	95	90	88
GRO >C5-C12	<44 µg/kg	TM089			531	955	<44	974	2250	4360
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		#	<5	<5	<5	<5	<5	<5
Benzene	<10 µg/kg	TM089		M	<10	<10	<10	<10	<10	<10
Toluene	<2 µg/kg	TM089		M	<2	<2	2.2	2.19	<2	<2
Ethylbenzene	<3 µg/kg	TM089		M	<3	<3	<3	<3	<3	<3
m,p-Xylene	<6 µg/kg	TM089		M	<6	<6	<6	<6	<6	<6
o-Xylene	<3 µg/kg	TM089		M	<3	<3	<3	<3	<3	<3
m,p,o-Xylene	<10 µg/kg	TM089			<10	<10	<10	<10	<10	<10
BTEX, Total	<10 µg/kg	TM089			<10	<10	<10	<10	<10	<10
Aliphatics >C5-C6	<10 µg/kg	TM089			<10	26.1	<10	12.1	<10	13.3
Aliphatics >C6-C8	<10 µg/kg	TM089			110	417	<10	26.3	40.6	385
Aliphatics >C8-C10	<10 µg/kg	TM089			130	220	<10	52.6	214	938
Aliphatics >C10-C12	<10 µg/kg	TM089			116	82.7	<10	505	1110	1440
Aliphatics >C12-C16	<100 µg/kg	TM173			9500	2490	2120	15100	18800	8780
Aliphatics >C16-C21	<100 µg/kg	TM173			56700	10800	1170	22100	163000	140000
Aliphatics >C21-C35	<100 µg/kg	TM173			243000	34200	508	24000	226000	242000
Aliphatics >C35-C44	<100 µg/kg	TM173			33600	7940	236	3450	6850	9110
Total Aliphatics >C12-C44	<100 µg/kg	TM173			343000	55400	4030	64500	414000	400000
Aromatics >EC5-EC7	<10 µg/kg	TM089			<10	<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089			<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089			86.9	146	<10	38.4	142	625
Aromatics >EC10-EC12	<10 µg/kg	TM089			77.1	55.5	<10	336	739	961
Aromatics >EC12-EC16	<100 µg/kg	TM173			6690	3220	6220	7730	11600	8770
Aromatics >EC16-EC21	<100 µg/kg	TM173			33900	7720	5680	13800	81900	78600
Aromatics >EC21-EC35	<100 µg/kg	TM173			140000	22500	10000	20300	160000	165000
Aromatics >EC35-EC44	<100 µg/kg	TM173			34600	4970	2660	3700	11700	19200
Aromatics >EC40-EC44	<100 µg/kg	TM173			11700	1620	662	1100	3910	8110
Total Aromatics >EC12-EC44	<100 µg/kg	TM173			215000	38400	24600	45500	266000	271000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173			558000	94800	28600	111000	682000	676000
Total Aliphatics >C5-35	<100 µg/kg	TM173			310000	48200	3800	61700	409000	393000
Total Aromatics >C5-35	<100 µg/kg	TM173			181000	33700	21900	42100	255000	254000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173			490000	81900	25700	104000	663000	647000



CERTIFICATE OF ANALYSIS

SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

VOC MS (S)

Results Legend			Customer Sample R		DVP45	DVP47	DVP49	DVP50	DVP51	
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference		0.50	0.70	0.80	0.50	1.50	
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	
S	Non-conforming work.				18/04/2011	18/04/2011	18/04/2011	18/04/2011	18/04/2011	
aq	Aqueous / settled sample.				19/04/2011	19/04/2011	19/04/2011	19/04/2011	19/04/2011	
diss.filt	Dissolved / filtered sample.				110419-3	110419-3	110419-3	110419-3	110419-3	
tot.unfilt	Total / unfiltered sample.				3324065	3324042	3324051	3324056	3324061	
*	subcontracted test.									
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.									
Component	LOD/Units	Method								
Dibromofluoromethane**	%	TM116			106	31.5	106	108	110	
Toluene-d8**	%	TM116			76.4	97.5	96.1	102	99	
4-Bromofluorobenzene**	%	TM116			139	132	130	114	127	
Dichlorodifluoromethane	<4 µg/kg	TM116			48.6	<4	<4	<4	<4	
Chloromethane	<7 µg/kg	TM116			<7	<7	<7	<7	<7	
Vinyl Chloride	<10 µg/kg	TM116			<10	<10	<10	<10	<10	
Bromomethane	<13 µg/kg	TM116			<13	<13	<13	<13	<13	
Chloroethane	<14 µg/kg	TM116			<14	<14	<14	<14	<14	
Trichlorofluoromethane	<6 µg/kg	TM116			671	<6	<6	<6	<6	
1.1-Dichloroethene	<10 µg/kg	TM116			<10	<10	<10	<10	<10	
Carbon Disulphide	<7 µg/kg	TM116			13.2	12.6	<7	<7	<7	
Dichloromethane	<10 µg/kg	TM116			<10	<10	<10	<10	<10	
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116			<11	<11	<11	<11	<11	
trans-1-2-Dichloroethene	<11 µg/kg	TM116			<11	<11	<11	<11	<11	
1.1-Dichloroethane	<8 µg/kg	TM116			<8	<8	<8	<8	<8	
cis-1-2-Dichloroethene	<5 µg/kg	TM116			<5	<5	<5	<5	<5	
2.2-Dichloropropane	<12 µg/kg	TM116			<12	<12	<12	<12	<12	
Bromochloromethane	<14 µg/kg	TM116			<14	<14	<14	<14	<14	
Chloroform	<8 µg/kg	TM116			<8	<8	<8	<8	<8	
1.1.1-Trichloroethane	<7 µg/kg	TM116			<7	<7	<7	<7	<7	
1.1-Dichloropropene	<11 µg/kg	TM116			<11	<11	<11	<11	<11	
Carbontetrachloride	<14 µg/kg	TM116			<14	<14	<14	<14	<14	
1.2-Dichloroethane	<5 µg/kg	TM116			<5	88.5	<5	<5	<5	
Benzene	<9 µg/kg	TM116			<9	<9	<9	<9	<9	
Trichloroethene	<9 µg/kg	TM116			<9	<9	<9	<9	<9	
1.2-Dichloropropane	<12 µg/kg	TM116			<12	<12	<12	<12	<12	
Dibromomethane	<9 µg/kg	TM116			<9	<9	<9	<9	<9	
Bromodichloromethane	<7 µg/kg	TM116			<7	<7	<7	<7	<7	
cis-1-3-Dichloropropene	<14 µg/kg	TM116			<14	<14	<14	<14	<14	
Toluene	<5 µg/kg	TM116			6.37	7.76	<5	<5	<5	
trans-1-3-Dichloropropene	<14 µg/kg	TM116			<14	<14	<14	<14	<14	
1.1.2-Trichloroethane	<10 µg/kg	TM116			<10	<10	<10	<10	<10	
1.3-Dichloropropane	<7 µg/kg	TM116			<7	<7	<7	<7	<7	
Tetrachloroethene	<5 µg/kg	TM116			<5	<5	<5	<5	<5	
Dibromochloromethane	<13 µg/kg	TM116			<13	<13	<13	<13	<13	



CERTIFICATE OF ANALYSIS

SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

VOC MS (S)

Results Legend		Customer Sample R	DVP45	DVP47	DVP49	DVP50	DVP51	
#	ISO17025 accredited.							
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.50 Soil/Solid 18/04/2011 19/04/2011 110419-3 3324065	0.70 Soil/Solid 18/04/2011 19/04/2011 110419-3 3324042	0.80 Soil/Solid 18/04/2011 19/04/2011 110419-3 3324051	0.50 Soil/Solid 18/04/2011 19/04/2011 110419-3 3324056	1.50 Soil/Solid 18/04/2011 19/04/2011 110419-3 3324061	
S	Non-conforming work.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.							
tot.unfilt	Total / unfiltered sample.							
*	subcontracted test.							
**	% recovery of the surrogate standard to check the efficiency of the method. The results of the individual compounds within the samples are not corrected for this recovery.							
Component	LOD/Units	Method						
1.2-Dibromoethane	<12 µg/kg	TM116						
Chlorobenzene	<5 µg/kg	TM116	<5 M	<5 M	<5 M	<5 M	<5 M	
1.1.1.2-Tetrachloroethane	<10 µg/kg	TM116	<10 M	<10 M	<10 M	<10 M	<10 M	
Ethylbenzene	<4 µg/kg	TM116	<4 M	<4 M	<4 M	<4 M	<4 M	
p/m-Xylene	<14 µg/kg	TM116	<14 #	<14 #	<14 #	<14 #	<14 #	
o-Xylene	<10 µg/kg	TM116	<10 M	<10 M	<10 M	<10 M	<10 M	
Styrene	<10 µg/kg	TM116	<10 M	<10 M	<10 M	<10 M	<10 M	
Bromoform	<10 µg/kg	TM116	<10 M	<10 M	<10 M	<10 M	<10 M	
Isopropylbenzene	<5 µg/kg	TM116	<5 M	<5 M	<5 M	7.96 M	<5 M	
1.1.2.2-Tetrachloroethane	<10 µg/kg	TM116	<10 #	<10 #	<10 #	<10 #	<10 #	
1.2.3-Trichloropropane	<17 µg/kg	TM116	<17 M	<17 M	<17 M	<17 M	<17 M	
Bromobenzene	<10 µg/kg	TM116	<10 M	<10 M	<10 M	<10 M	<10 M	
Propylbenzene	<11 µg/kg	TM116	<11 M	<11 M	<11 M	<11 M	<11 M	
2-Chlorotoluene	<9 µg/kg	TM116	<9 M	<9 M	<9 M	<9 M	<9 M	
1.3.5-Trimethylbenzene	<8 µg/kg	TM116	<8 #	<8 #	<8 #	<8 #	<8 #	
4-Chlorotoluene	<12 µg/kg	TM116	<12 M	<12 M	<12 M	<12 M	<12 M	
tert-Butylbenzene	<12 µg/kg	TM116	<12 #	<12 #	<12 #	<12 #	<12 #	
1.2.4-Trimethylbenzene	<9 µg/kg	TM116	<9 #	<9 #	<9 #	<9 #	<9 #	
sec-Butylbenzene	<10 µg/kg	TM116	<10 M	<10 M	<10 M	<10 M	<10 M	
4-Isopropyltoluene	<11 µg/kg	TM116	<11 M	<11 M	<11 M	<11 M	<11 M	
1.3-Dichlorobenzene	<6 µg/kg	TM116	<6 M	<6 M	<6 M	<6 M	<6 M	
1.4-Dichlorobenzene	<5 µg/kg	TM116	<5 M	<5 M	<5 M	<5 M	<5 M	
n-Butylbenzene	<10 µg/kg	TM116	<10 M	<10 M	<10 M	<10 M	<10 M	
1.2-Dichlorobenzene	<12 µg/kg	TM116	<12 M	<12 M	<12 M	<12 M	<12 M	
1.2-Dibromo-3-chloropropene	<14 µg/kg	TM116	<14 M	<14 M	<14 M	<14 M	<14 M	
Tert-amyl methyl ether	<15 µg/kg	TM116	<15	<15	<15	<15	<15	
1.2.4-Trichlorobenzene	<6 µg/kg	TM116	<6 #	<6 #	<6 #	<6 #	<6 #	
Hexachlorobutadiene	<12 µg/kg	TM116	<12	<12	<12	<12	<12	
Naphthalene	<13 µg/kg	TM116	<13 M	<13 M	<13 M	<13 M	<13 M	
1.2.3-Trichlorobenzene	<6 µg/kg	TM116	<6 M	<6 M	<6 M	<6 M	<6 M	



CERTIFICATE OF ANALYSIS

SDG:	110419-3	Location:	Coed Darcy Urban Village	Order Number:	CD0115
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	127190
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Table of Results - Appendix

REPORT KEY

NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PFD	Possible Fibres Detected	»	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM001	In - house Method	Determination of asbestos containing material by screening on solids		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		
TM221	Inductively Coupled Plasma - Atomic Emission Spectroscopy. An Atlas of Spectral Information: Winge, Fassel, Peterson and Floyd	Determination of Acid extractable Sulphate in Soils by IRIS Emission Spectrometer		
TM243				

¹ Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.



CERTIFICATE OF ANALYSIS

SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Test Completion Dates

Lab Sample No(s)	3324031	3324032	3324033	3324035	3324065	3324036	3324042	3324043	3324044	3324045
Customer Sample Ref.	DVP44	DVP44	DVP44	DVP45	DVP45	DVP46	DVP47	DVP47	DVP47	DVP48
AGS Ref.										
Depth	2.40	0.30	1.40	1.50	0.50	0.20	0.70	0.20	2.50	0.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Anions by Kone (soil)					03-May-2011		03-May-2011			
Asbestos Containing Material Screen		26-Apr-2011			26-Apr-2011	26-Apr-2011		26-Apr-2011		26-Apr-2011
EPH CWG (Aliphatic) GC (S)	27-Apr-2011	28-Apr-2011	27-Apr-2011	27-Apr-2011	03-May-2011	28-Apr-2011		03-May-2011	27-Apr-2011	03-May-2011
EPH CWG (Aromatic) GC (S)	27-Apr-2011	28-Apr-2011	27-Apr-2011	27-Apr-2011	03-May-2011	28-Apr-2011		03-May-2011	27-Apr-2011	03-May-2011
GRO by GC-FID (S)	03-May-2011	03-May-2011	03-May-2011	03-May-2011	03-May-2011	03-May-2011		03-May-2011	03-May-2011	03-May-2011
Metals by iCap-OES (Soil)		28-Apr-2011	27-Apr-2011		28-Apr-2011	27-Apr-2011	27-Apr-2011	28-Apr-2011	27-Apr-2011	28-Apr-2011
PAH by GCMS	27-Apr-2011	28-Apr-2011	27-Apr-2011	27-Apr-2011		28-Apr-2011		28-Apr-2011	27-Apr-2011	28-Apr-2011
pH		30-Apr-2011	29-Apr-2011	03-May-2011	30-Apr-2011	03-May-2011	03-May-2011			
Sample description	21-Apr-2011	26-Apr-2011	21-Apr-2011	21-Apr-2011	27-Apr-2011	26-Apr-2011	21-Apr-2011	27-Apr-2011	21-Apr-2011	27-Apr-2011
Semi Volatile Organic Compounds					28-Apr-2011		28-Apr-2011			
Total Organic Carbon	03-May-2011								03-May-2011	
Total Sulphate					03-May-2011		27-Apr-2011			
TPH CWG GC (S)	03-May-2011	03-May-2011	03-May-2011	03-May-2011	03-May-2011	03-May-2011		03-May-2011	03-May-2011	03-May-2011
VOC MS (S)					28-Apr-2011		28-Apr-2011			

Lab Sample No(s)	3324046	3324051	3324052	3324055	3324056	3324059	3324060	3324061	3324062
Customer Sample Ref.	DVP48	DVP49	DVP49	DVP50	DVP50	DVP50	DVP51	DVP51	DVP51
AGS Ref.									
Depth	1.50	0.80	1.50	1.50	0.50	2.50	3.50	1.50	0.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Anions by Kone (soil)		03-May-2011			03-May-2011				
Asbestos Containing Material Screen					26-Apr-2011				26-Apr-2011
EPH CWG (Aliphatic) GC (S)	27-Apr-2011	27-Apr-2011	27-Apr-2011	27-Apr-2011	03-May-2011	27-Apr-2011	27-Apr-2011	28-Apr-2011	03-May-2011
EPH CWG (Aromatic) GC (S)	27-Apr-2011	27-Apr-2011	27-Apr-2011	27-Apr-2011	03-May-2011	27-Apr-2011	27-Apr-2011	28-Apr-2011	03-May-2011
GRO by GC-FID (S)	03-May-2011	03-May-2011	03-May-2011	03-May-2011	03-May-2011	03-May-2011	03-May-2011	03-May-2011	03-May-2011
Metals by iCap-OES (Soil)	27-Apr-2011	27-Apr-2011	27-Apr-2011	27-Apr-2011	28-Apr-2011		27-Apr-2011	27-Apr-2011	28-Apr-2011
PAH by GCMS	27-Apr-2011	27-Apr-2011	27-Apr-2011				27-Apr-2011		28-Apr-2011
pH	03-May-2011	03-May-2011	03-May-2011	29-Apr-2011	03-May-2011	29-Apr-2011		29-Apr-2011	30-Apr-2011
Sample description	21-Apr-2011	21-Apr-2011	21-Apr-2011	21-Apr-2011	27-Apr-2011	21-Apr-2011	21-Apr-2011	21-Apr-2011	27-Apr-2011
Semi Volatile Organic Compounds		28-Apr-2011			28-Apr-2011			28-Apr-2011	
Total Organic Carbon	03-May-2011					03-May-2011			
Total Sulphate		27-Apr-2011			03-May-2011				
TPH CWG GC (S)	03-May-2011	03-May-2011	03-May-2011	03-May-2011	03-May-2011	03-May-2011	03-May-2011	03-May-2011	03-May-2011
VOC MS (S)		28-Apr-2011			28-Apr-2011			28-Apr-2011	



SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

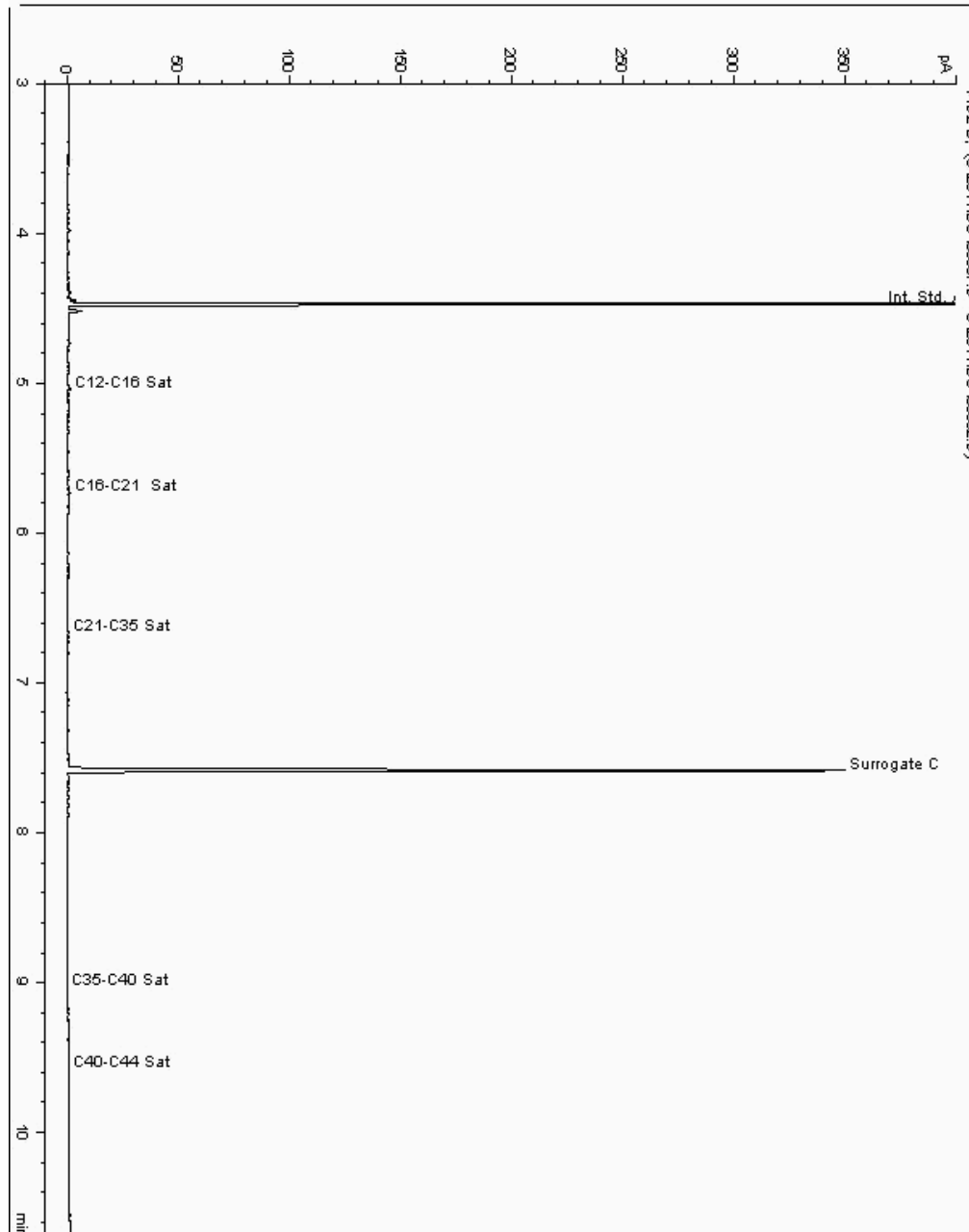
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3359886
Sample ID : DVP49

Depth : 1.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3384913-3359886
Date Acquired : 27/04/11 06:01:37 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

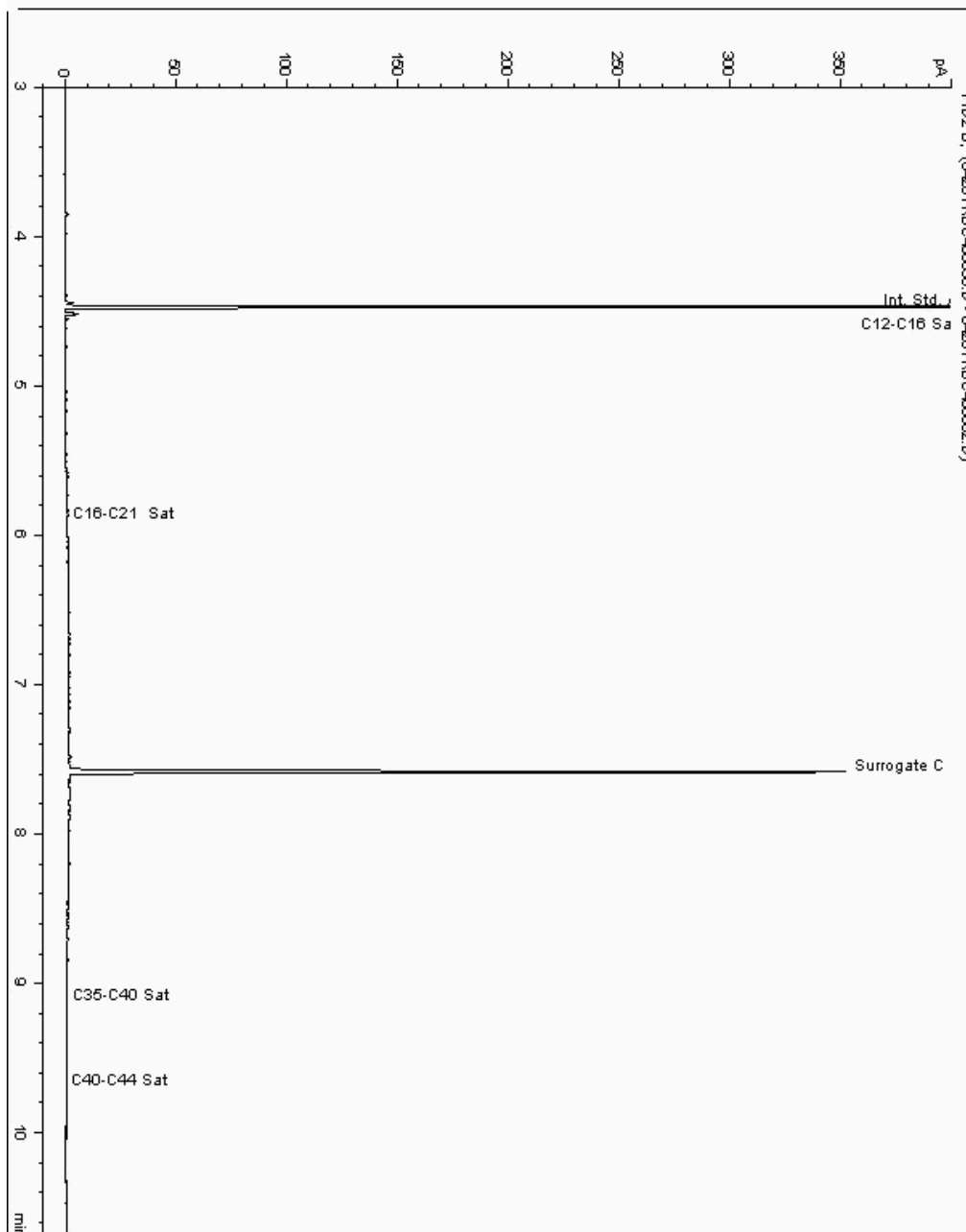
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3359899
Sample ID : DVP50

Depth : 1.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3384924-3359899
Date Acquired : 27/04/11 06:21:12 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

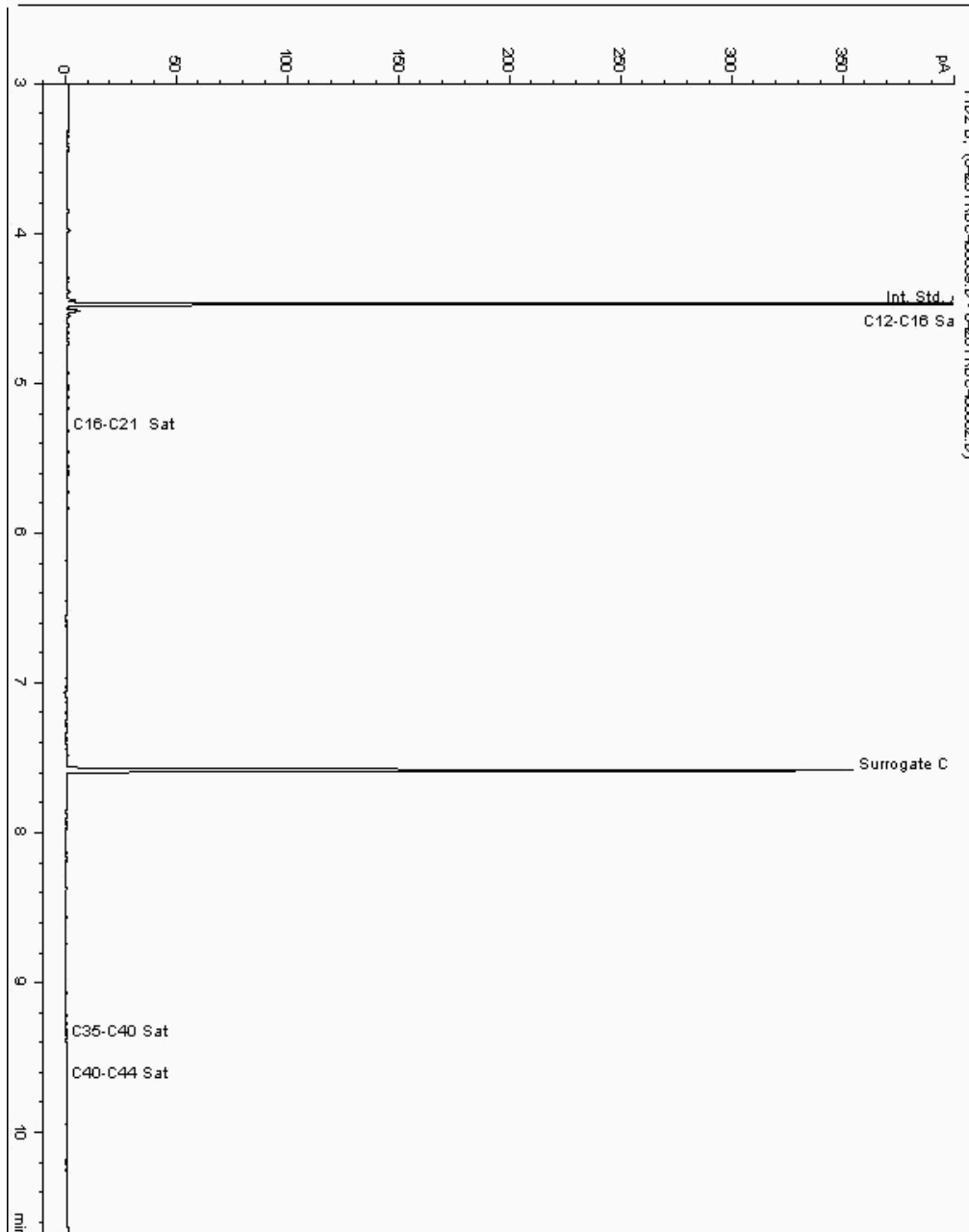
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3359981
Sample ID : DVP50

Depth : 2.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3384955-3359981
Date Acquired : 27/04/11 06:40:55 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

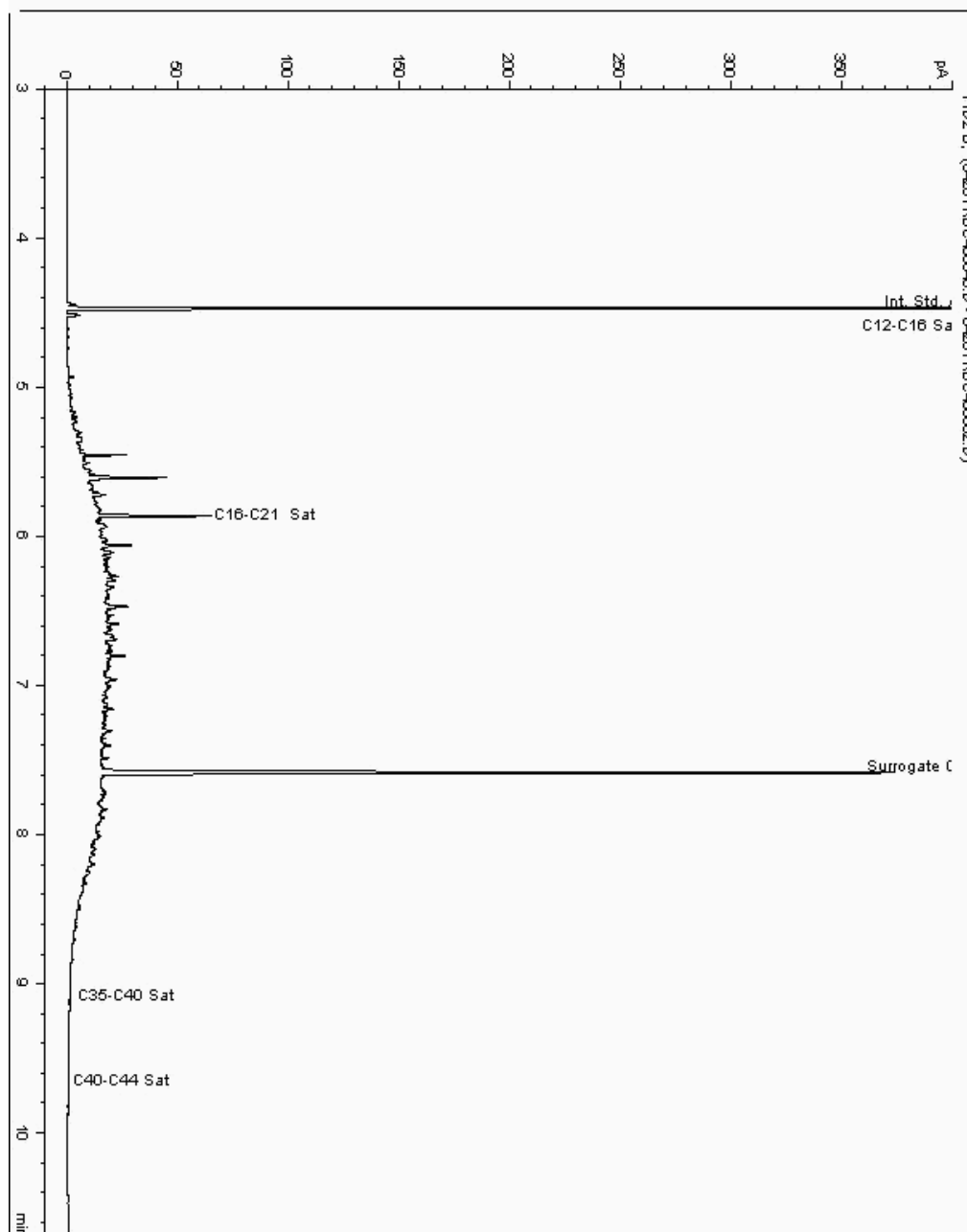
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3359985
Sample ID : DVP51

Depth : 3.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3384964-3359985
Date Acquired : 27/04/11 07:00:26 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

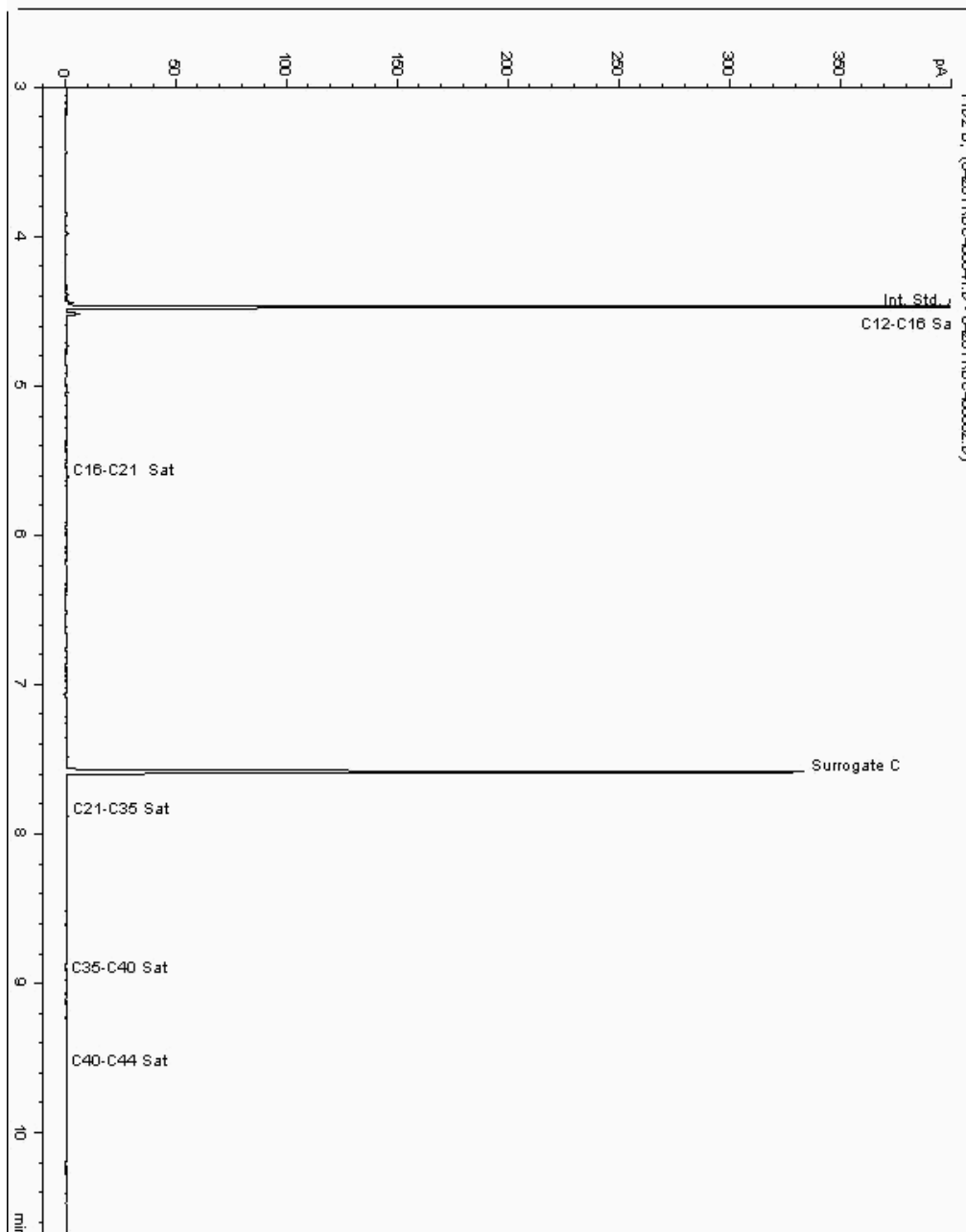
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3360111
Sample ID : DVP45

Depth : 1.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3384800-3360111
Date Acquired : 27/04/11 08:37:28 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

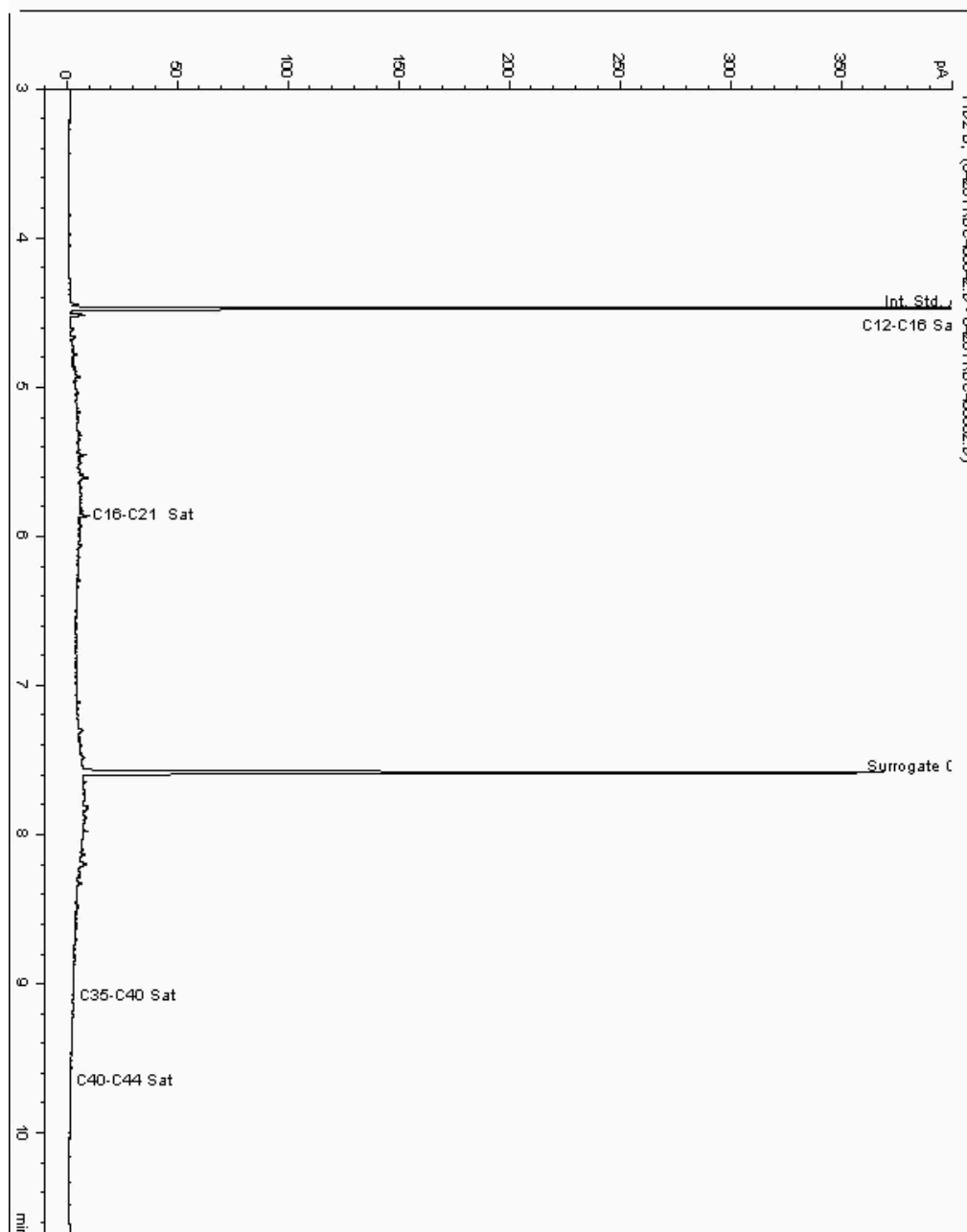
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3360144
Sample ID : DVP44

Depth : 1.40

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3384788-3360144
Date Acquired : 27/04/11 08:57:16 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

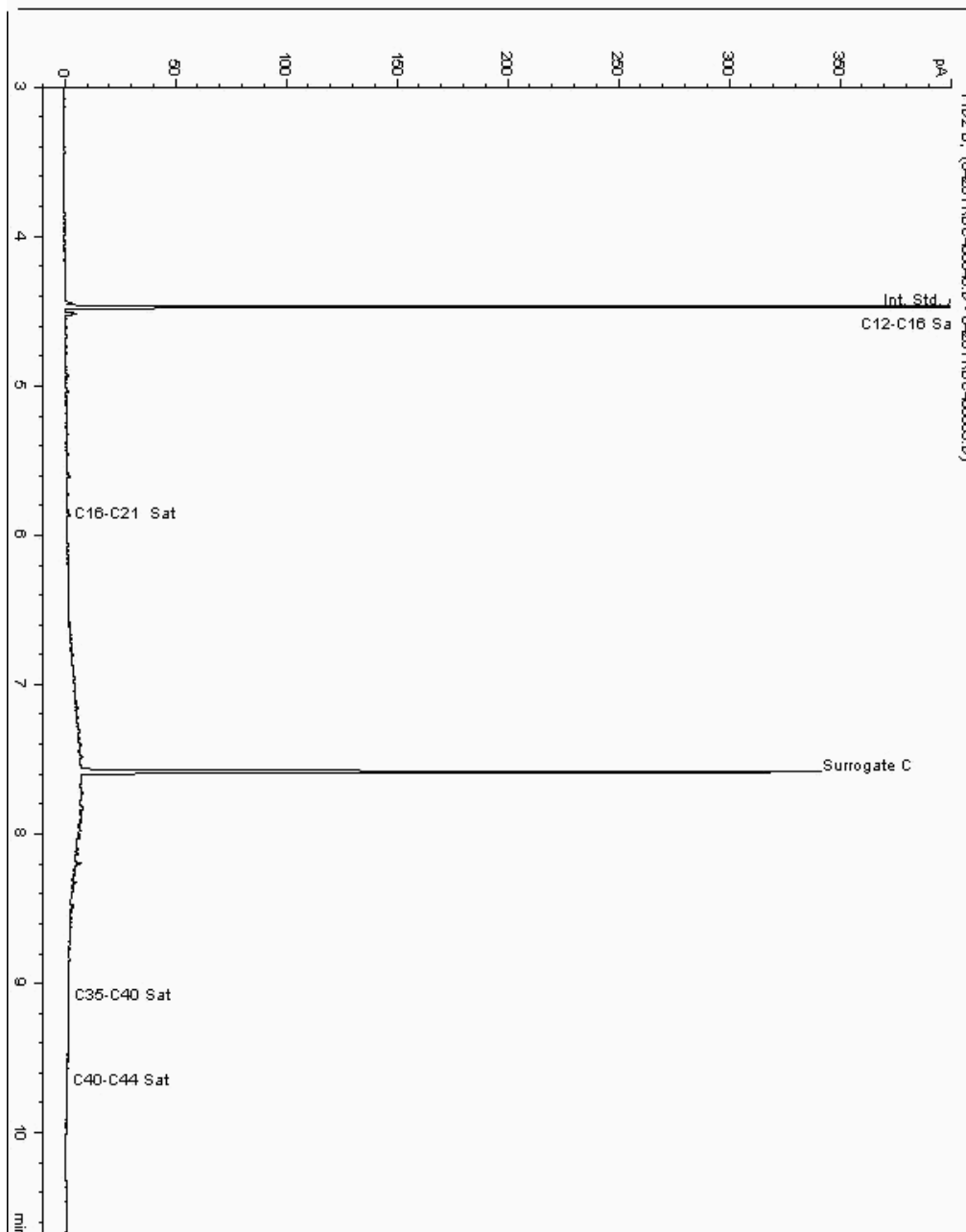
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3360158
Sample ID : DVP44

Depth : 2.40

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3384765-3360158
Date Acquired : 27/04/11 09:16:54 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

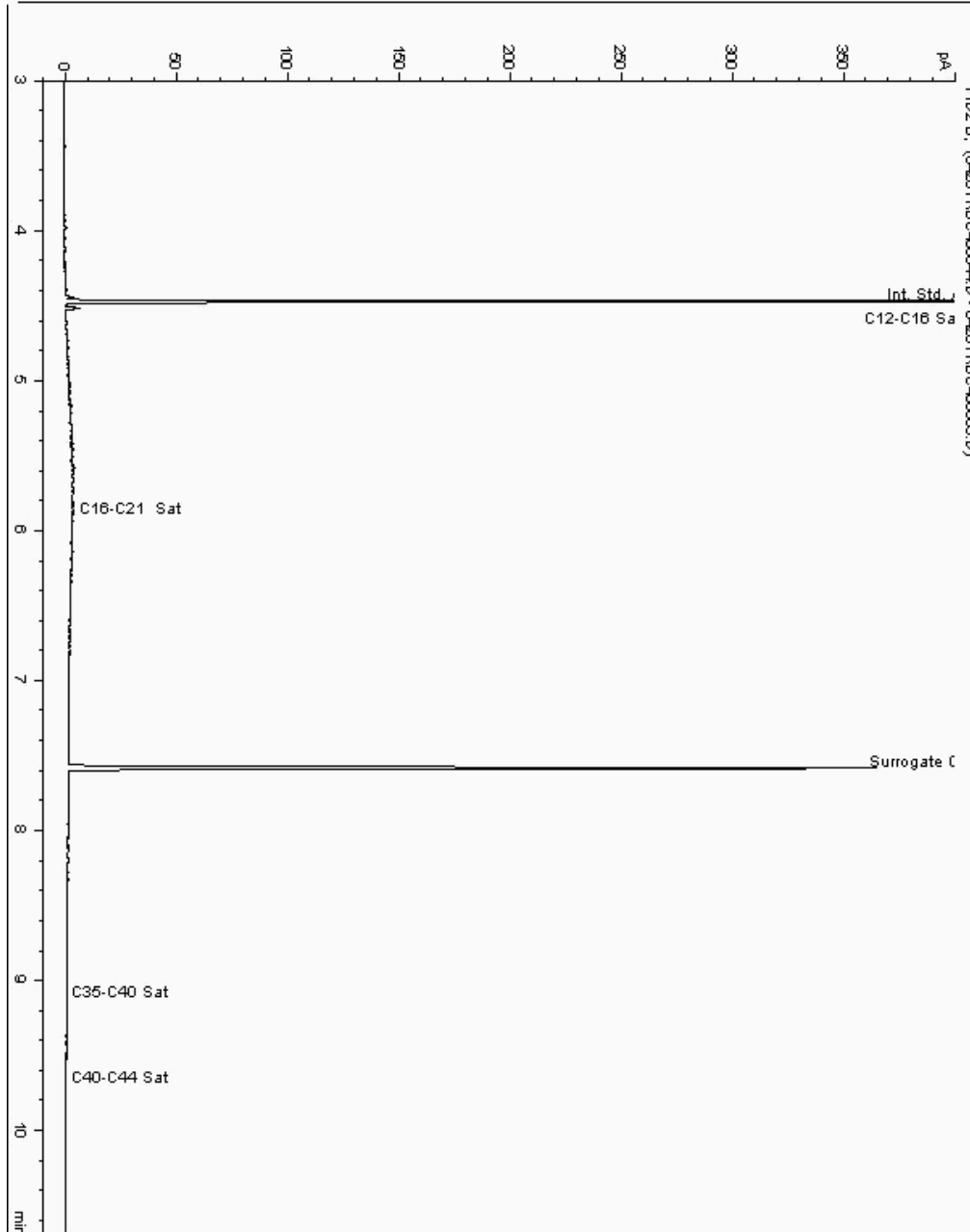
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3360333
Sample ID : DVP49

Depth : 0.80

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3384899-3360333
Date Acquired : 27/04/11 09:36:29 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

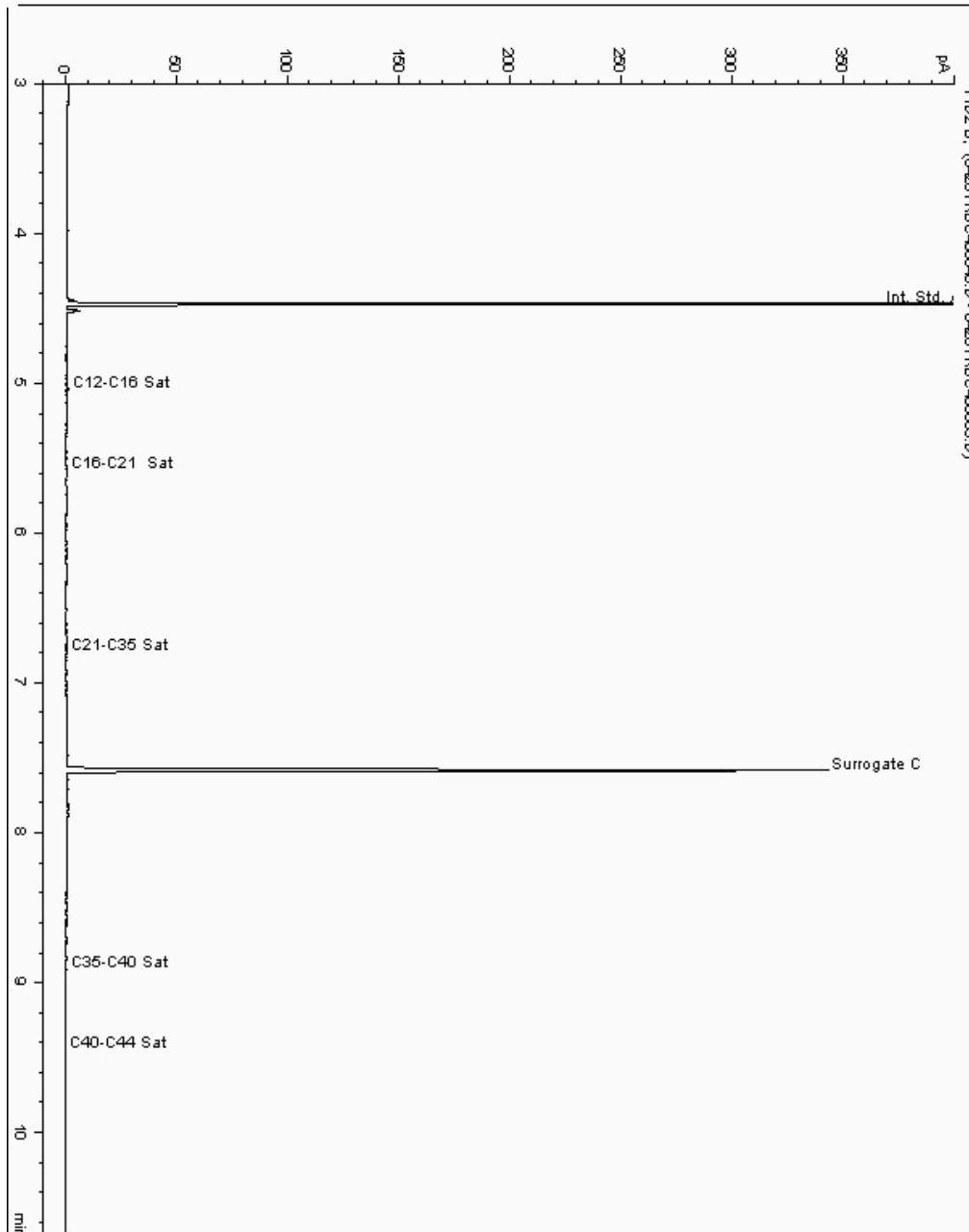
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3360359
Sample ID : DVP47

Depth : 2.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3384857-3360359
Date Acquired : 27/04/11 10:36:39 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

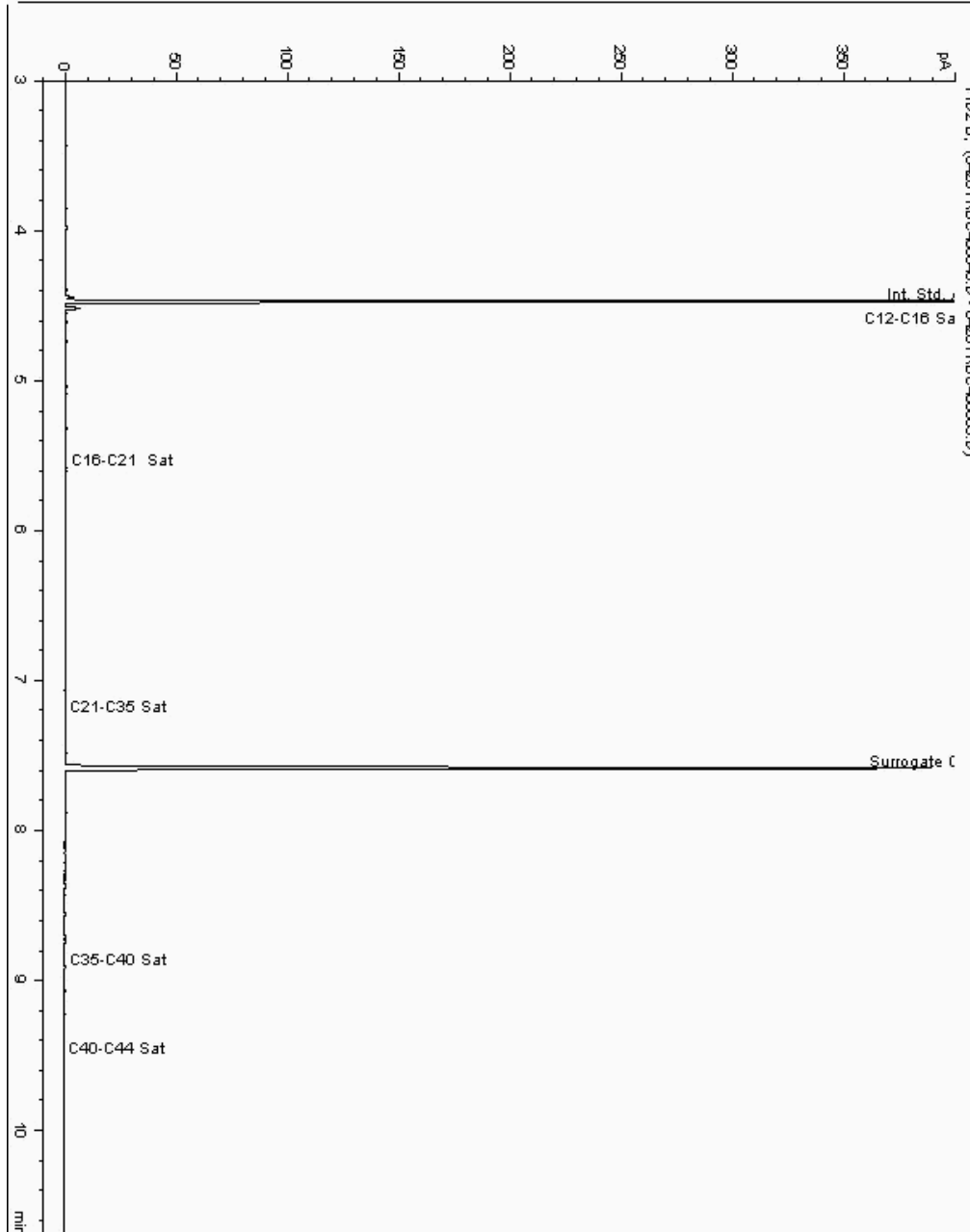
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3360425
Sample ID : DVP48

Depth : 1.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3384882-3360425
Date Acquired : 27/04/11 11:26:29 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

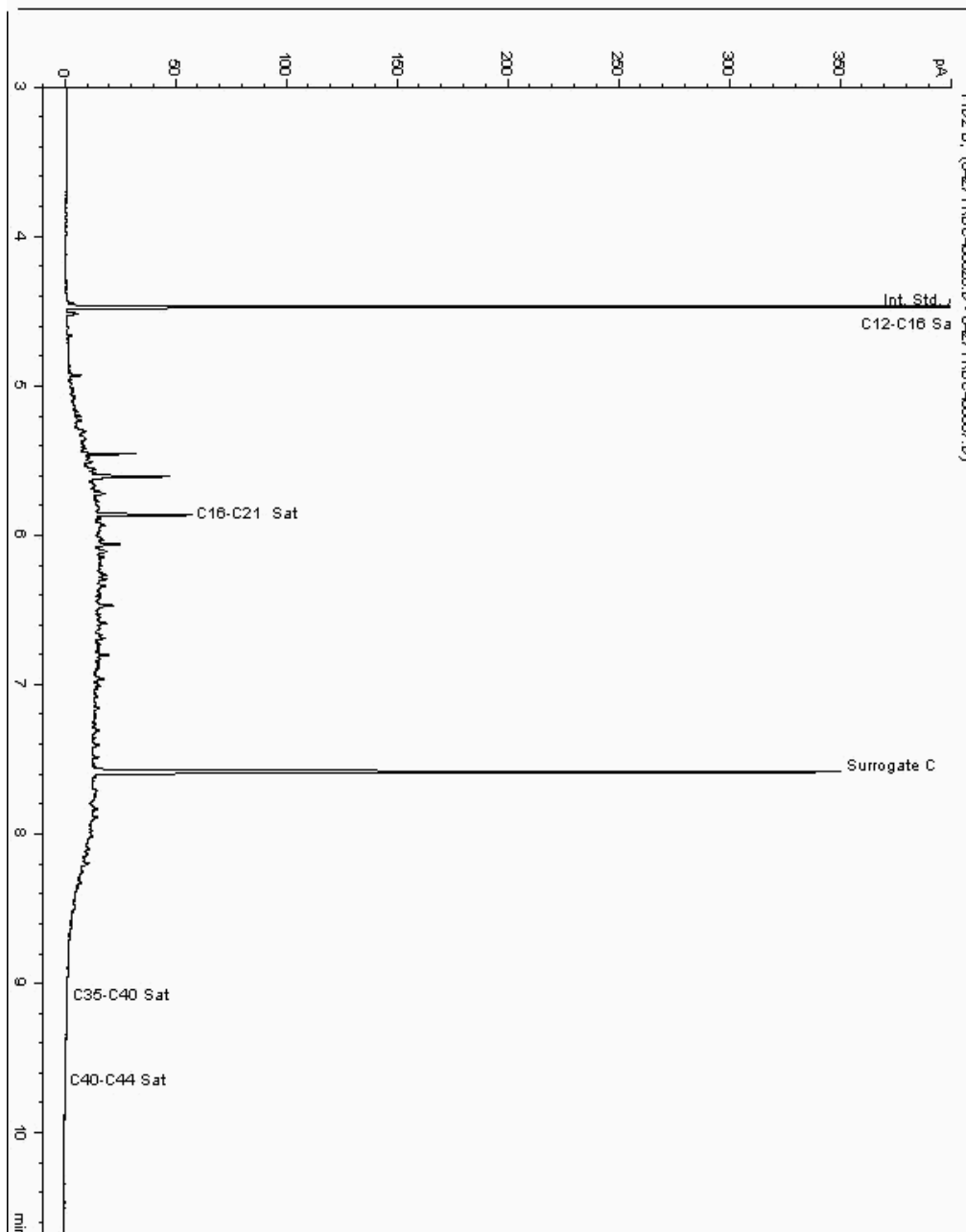
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3360860
Sample ID : DVP51

Depth : 1.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3384982-3360860
Date Acquired : 27/04/11 22:01:40 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

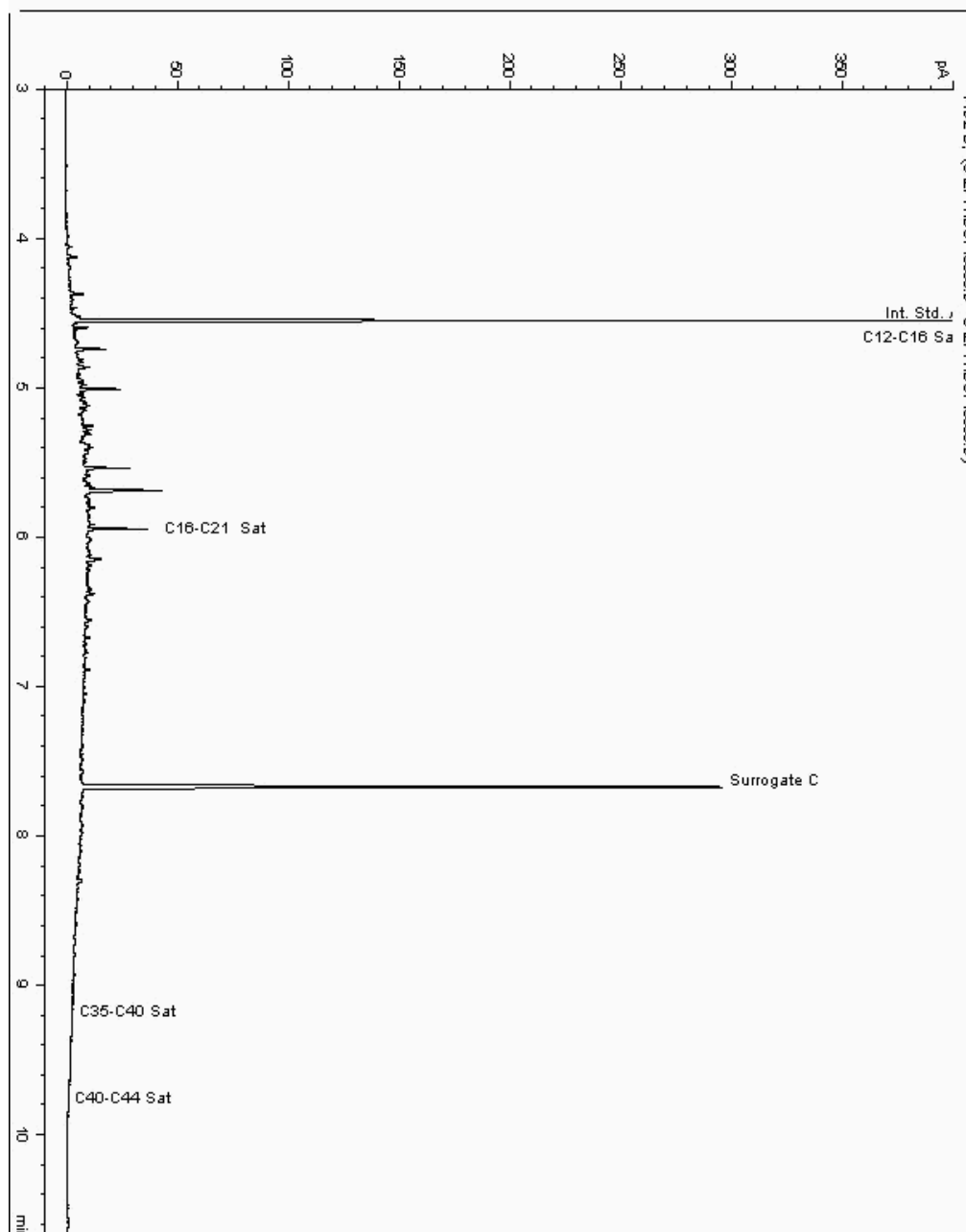
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3365707
Sample ID : DVP46

Depth : 0.20

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3384810-3365707
Date Acquired : 28/04/2011 06:36:48 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

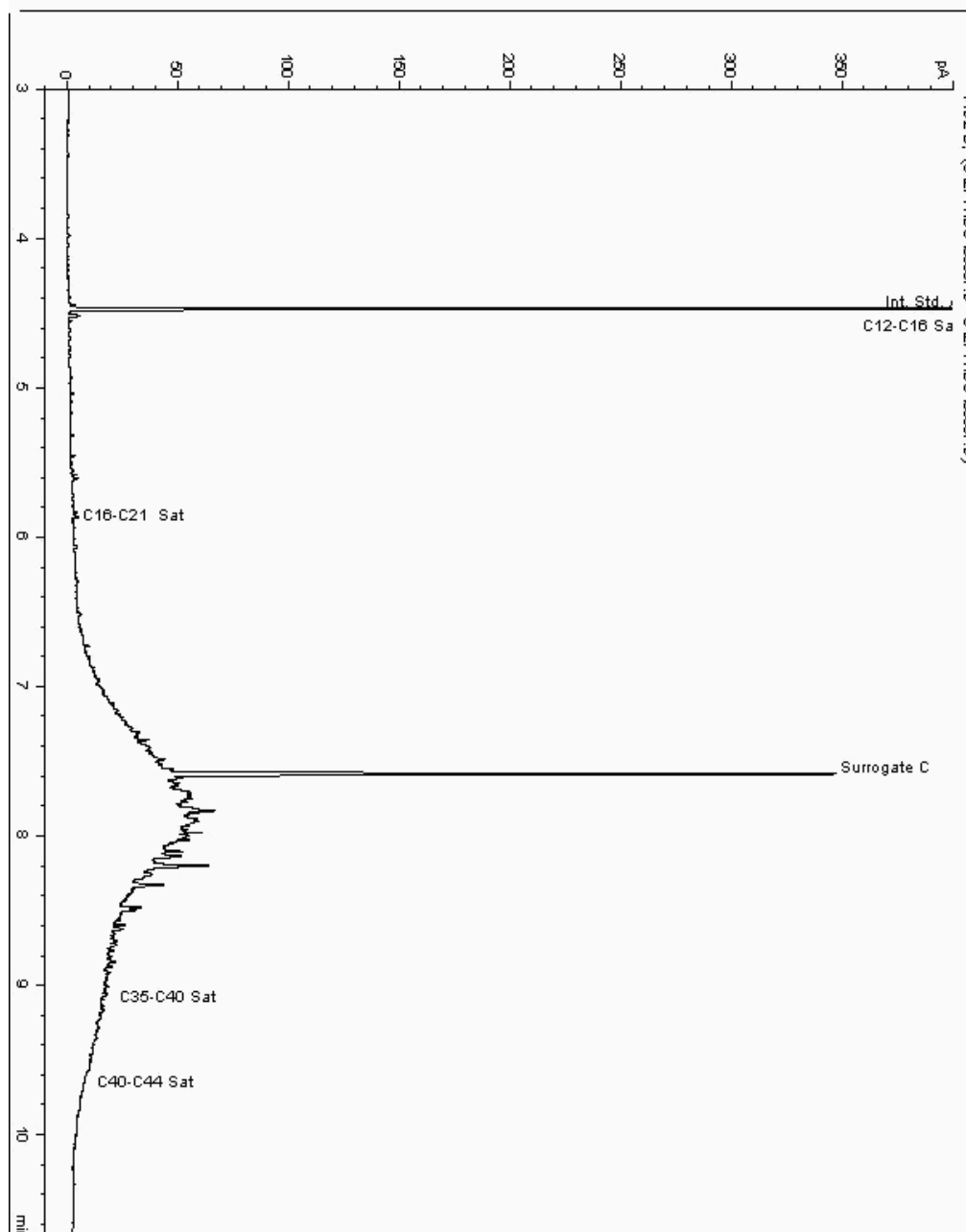
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3365818
Sample ID : DVP44

Depth : 0.30

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3384775-3365818
Date Acquired : 28/04/11 03:10:45 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

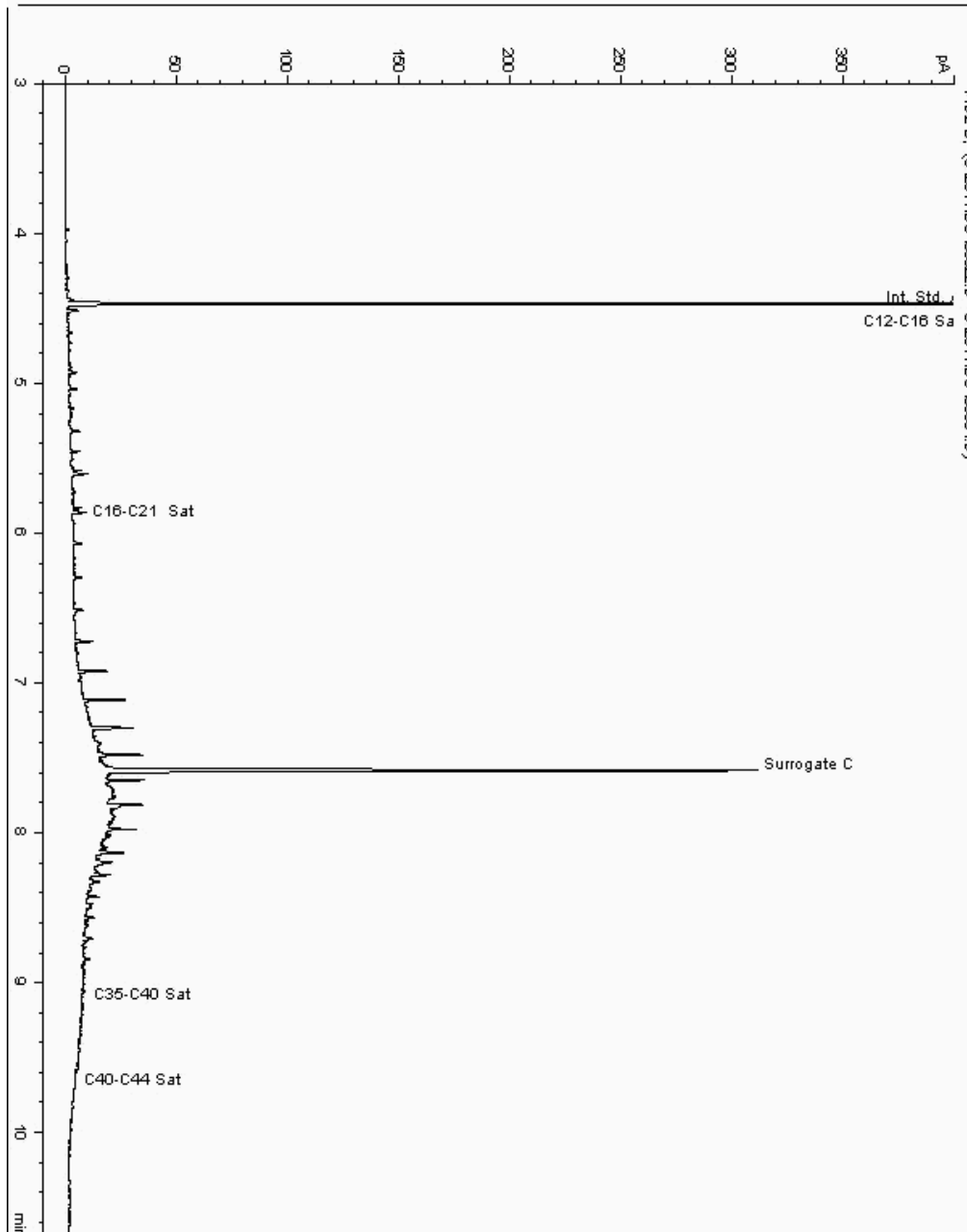
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3372098
Sample ID : DVP47

Depth : 0.20

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3384845-3372098
Date Acquired : 28/04/11 20:17:45 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

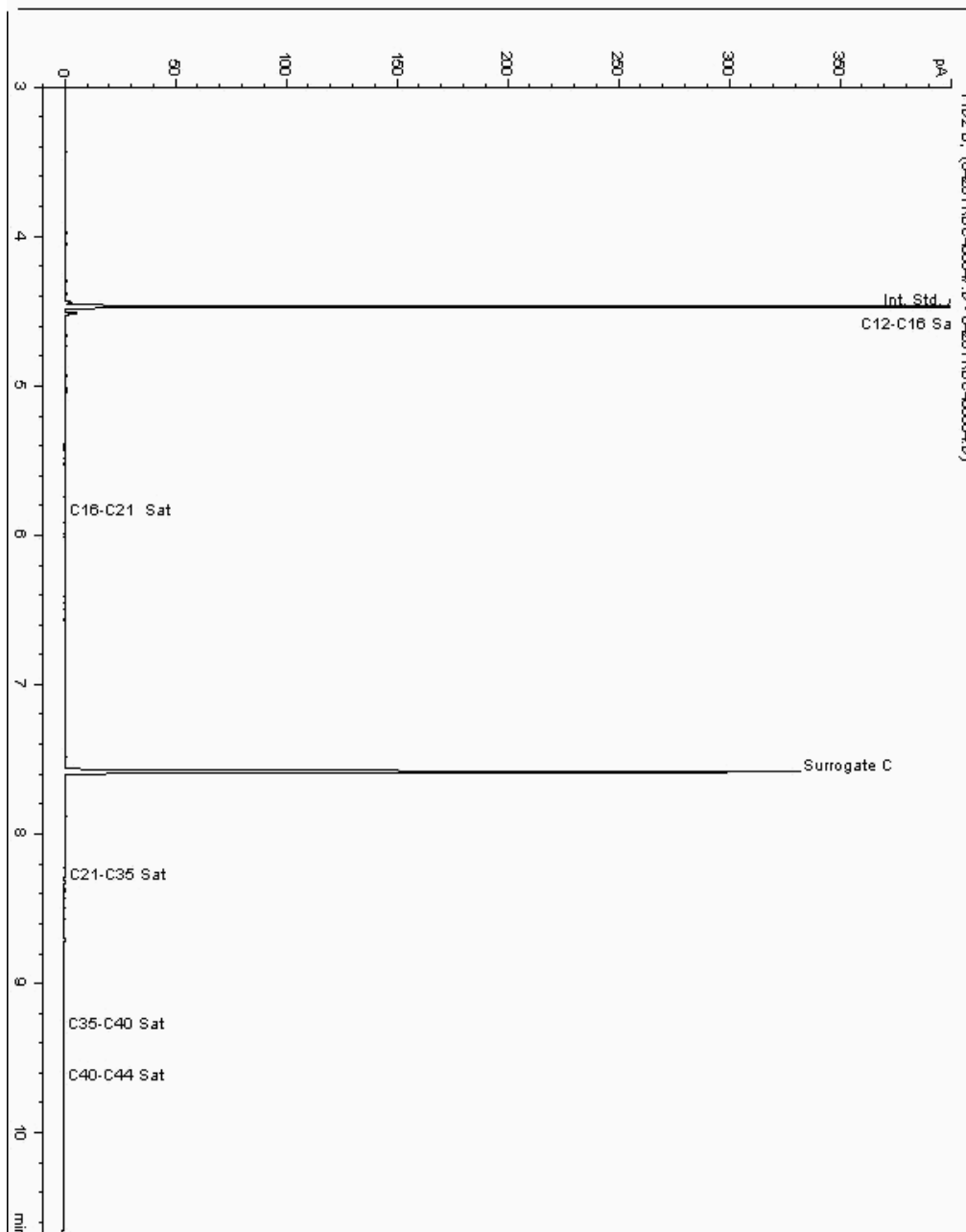
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3373049
Sample ID : DVP48

Depth : 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3384869-3373049
Date Acquired : 29/04/11 03:38:00 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

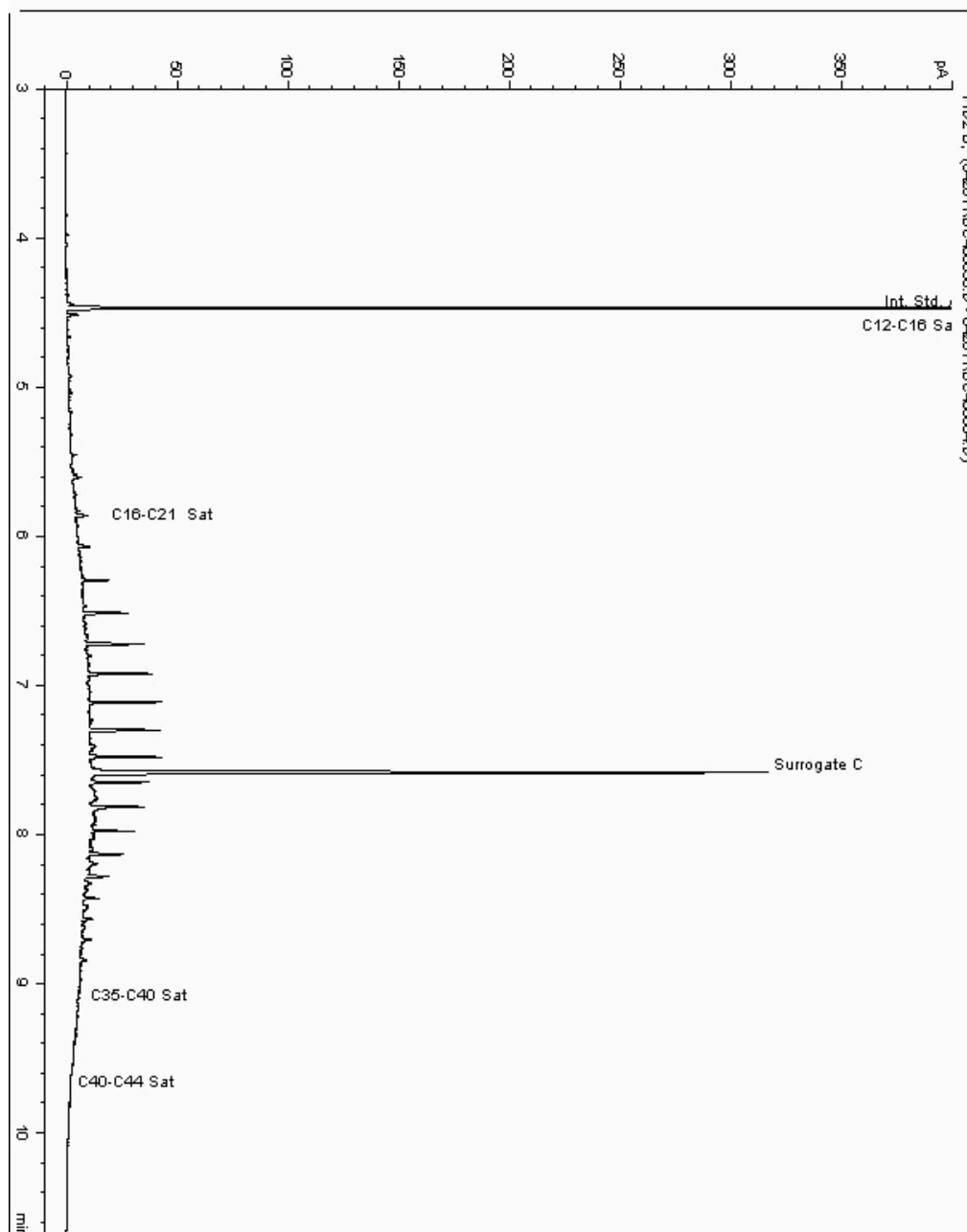
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3373093
Sample ID : DVP50

Depth : 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3384938-3373093
Date Acquired : 29/04/11 04:37:40 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

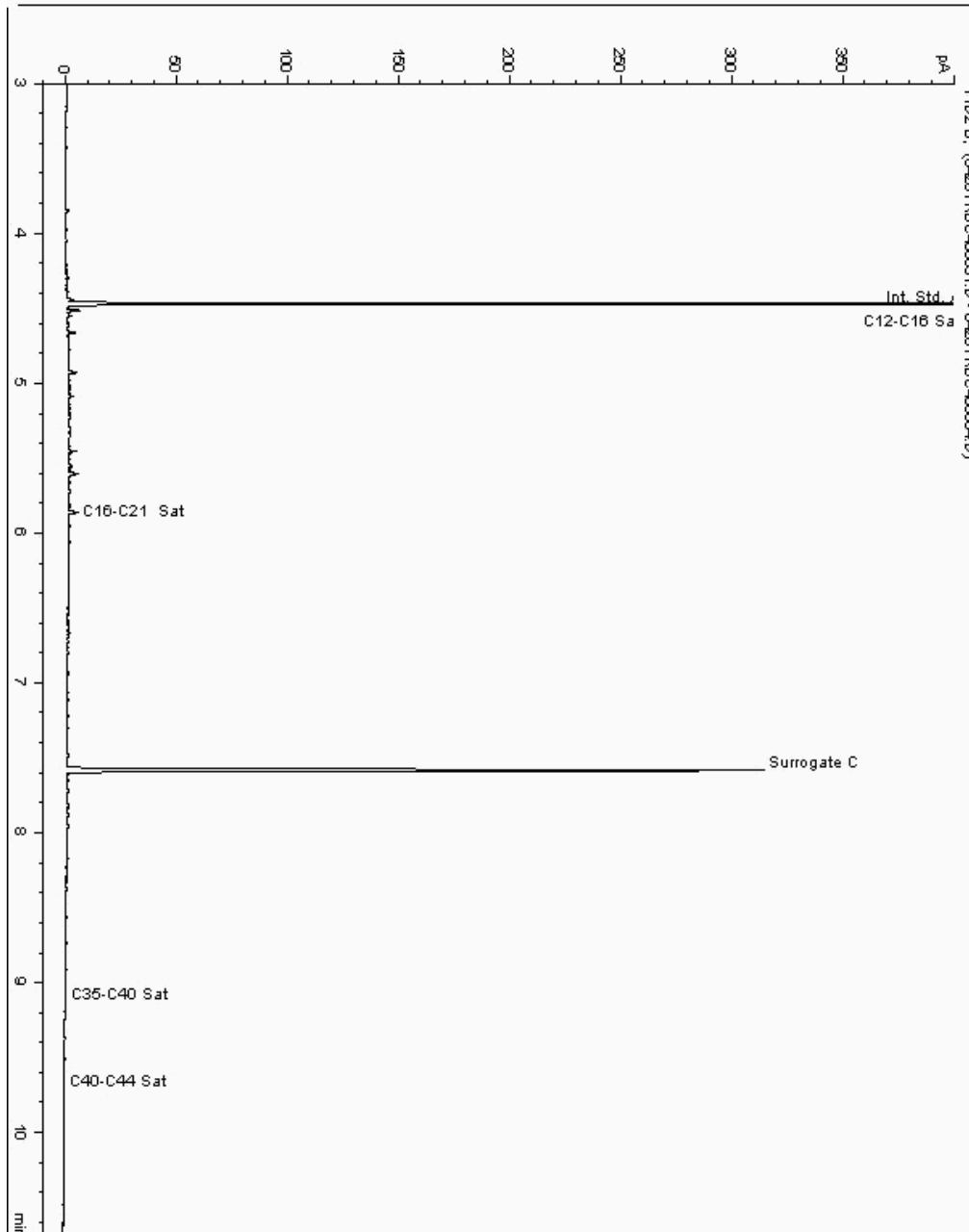
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3373105
Sample ID : DVP51

Depth : 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3385028-3373105
Date Acquired : 29/04/11 04:57:27 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

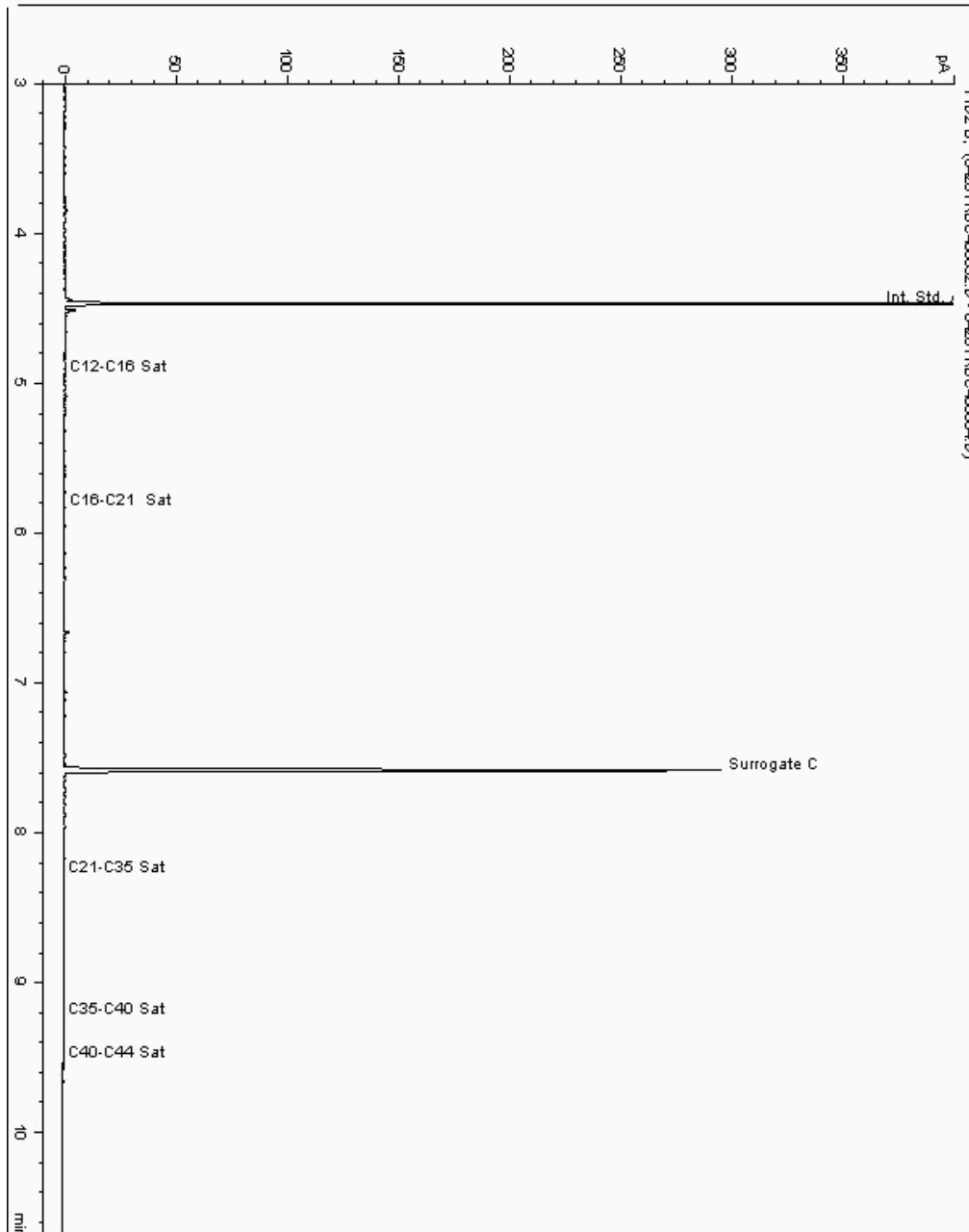
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 3373224
Sample ID : DVP45

Depth : 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - SATS (C12 - C40)

Sample Identity: 3385080-3373224
Date Acquired : 29/04/11 05:17:24 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

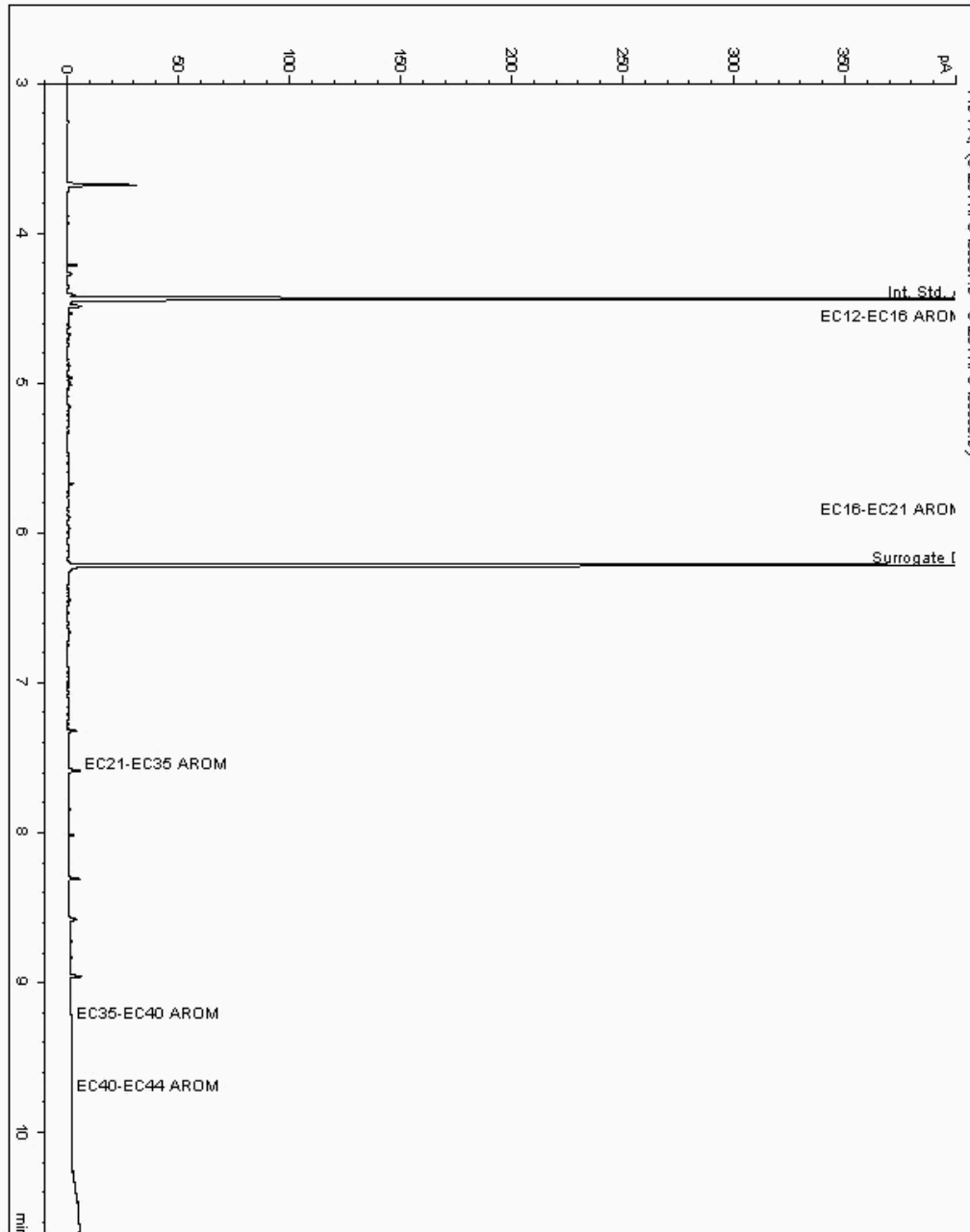
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3359886
Sample ID : DVP49

Depth : 1.50

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3384914-3359886
Date Acquired : 27/04/11 06:01:36 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

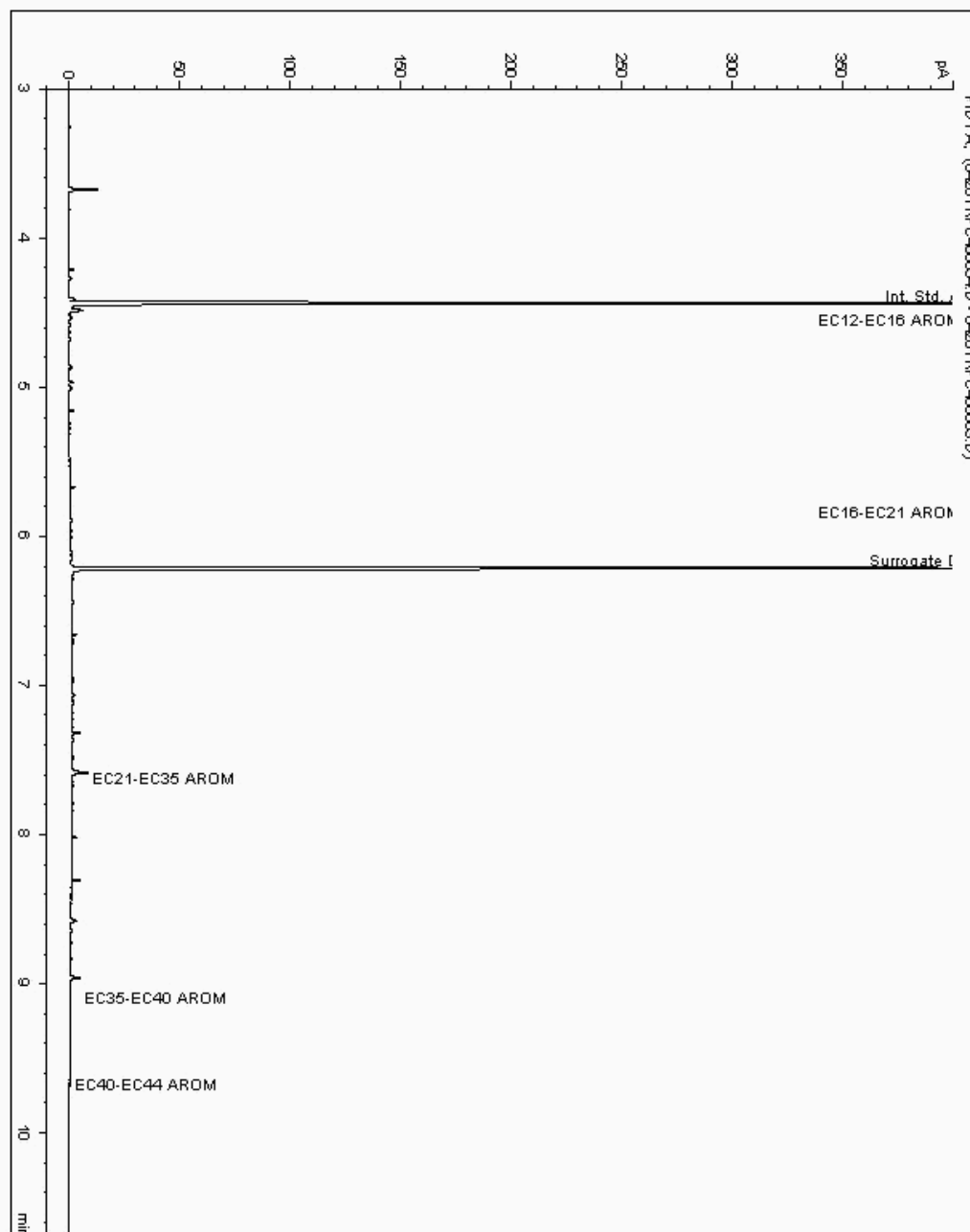
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3359899
Sample ID : DVP50

Depth : 1.50

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3384925-3359899
Date Acquired : 27/04/11 13:18:45 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

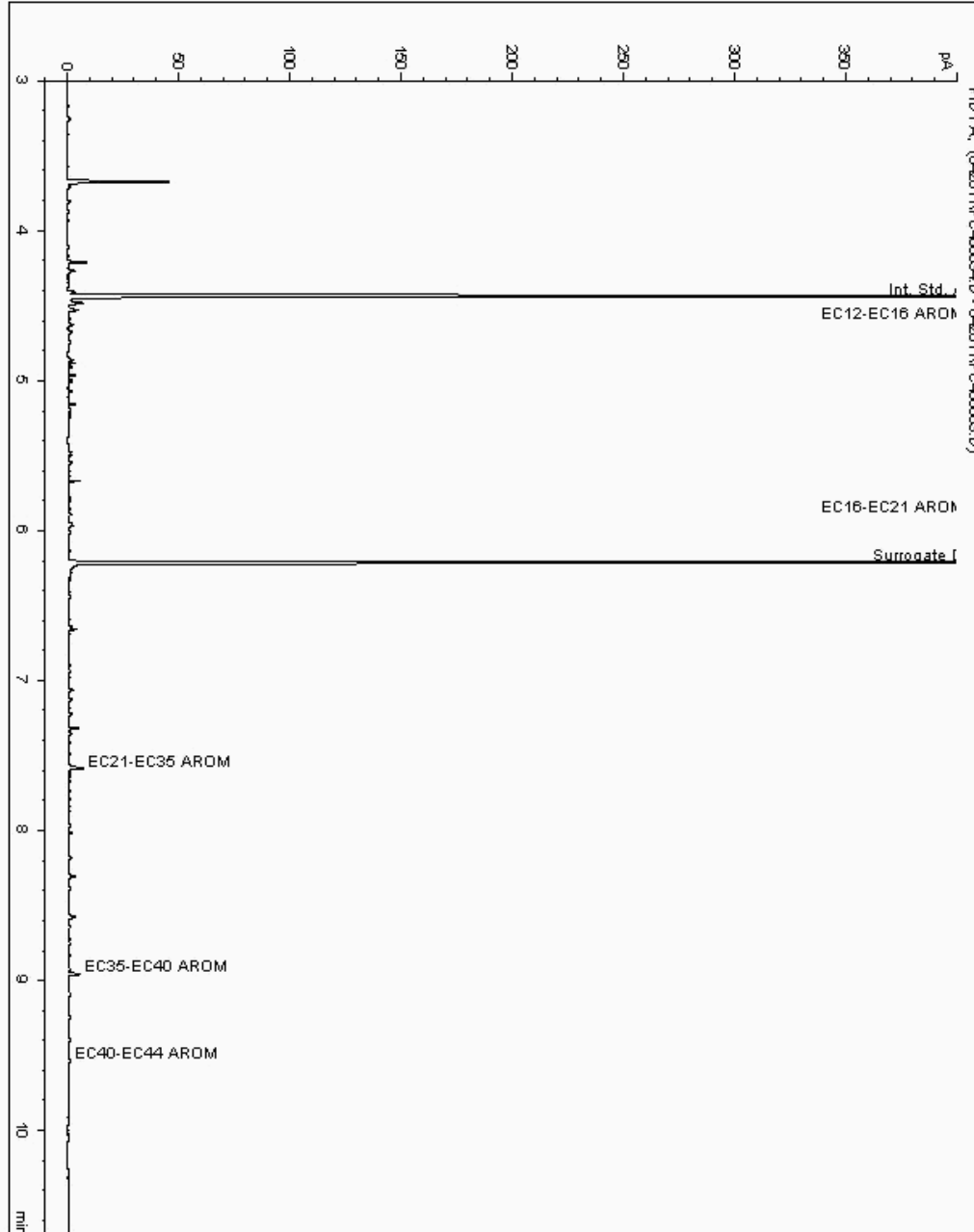
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3359981
Sample ID : DVP50

Depth : 2.50

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3384956-3359981
Date Acquired : 27/04/11 07:48:07 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

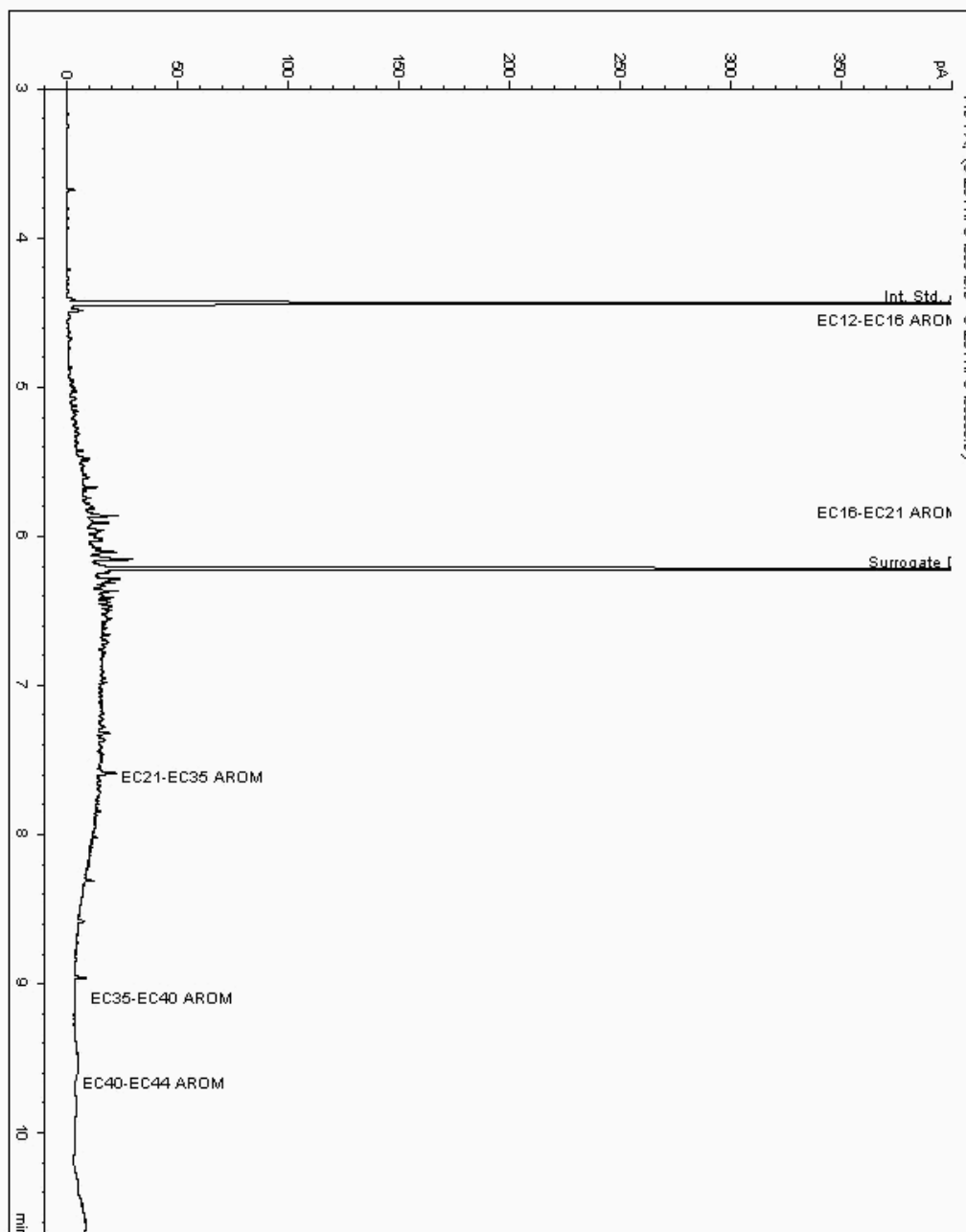
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3359985
Sample ID : DVP51

Depth : 3.50

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3384965-3359985
Date Acquired : 27/04/11 07:00:26 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

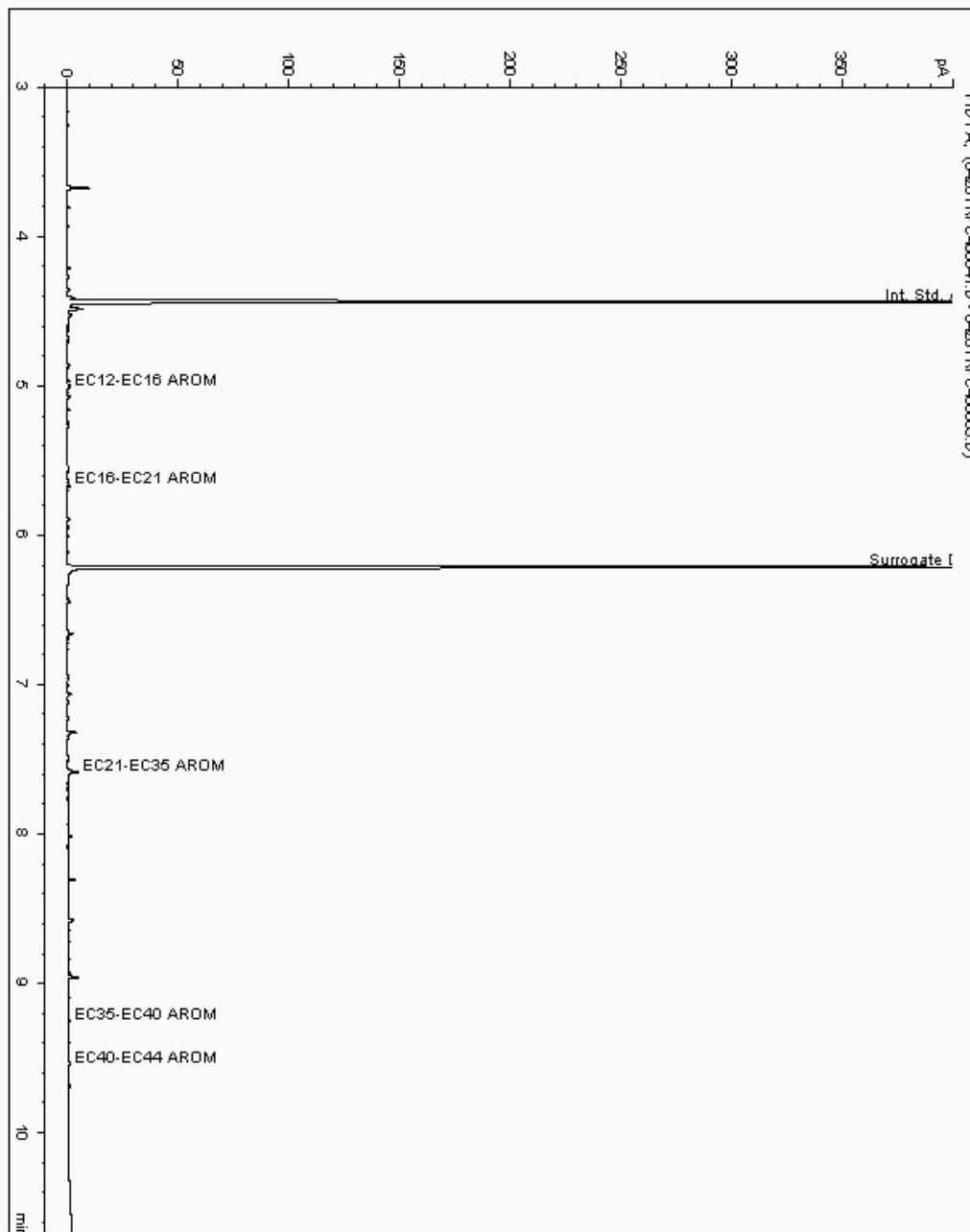
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3360111
Sample ID : DVP45

Depth : 1.50

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3384801-3360111
Date Acquired : 27/04/11 08:37:27 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

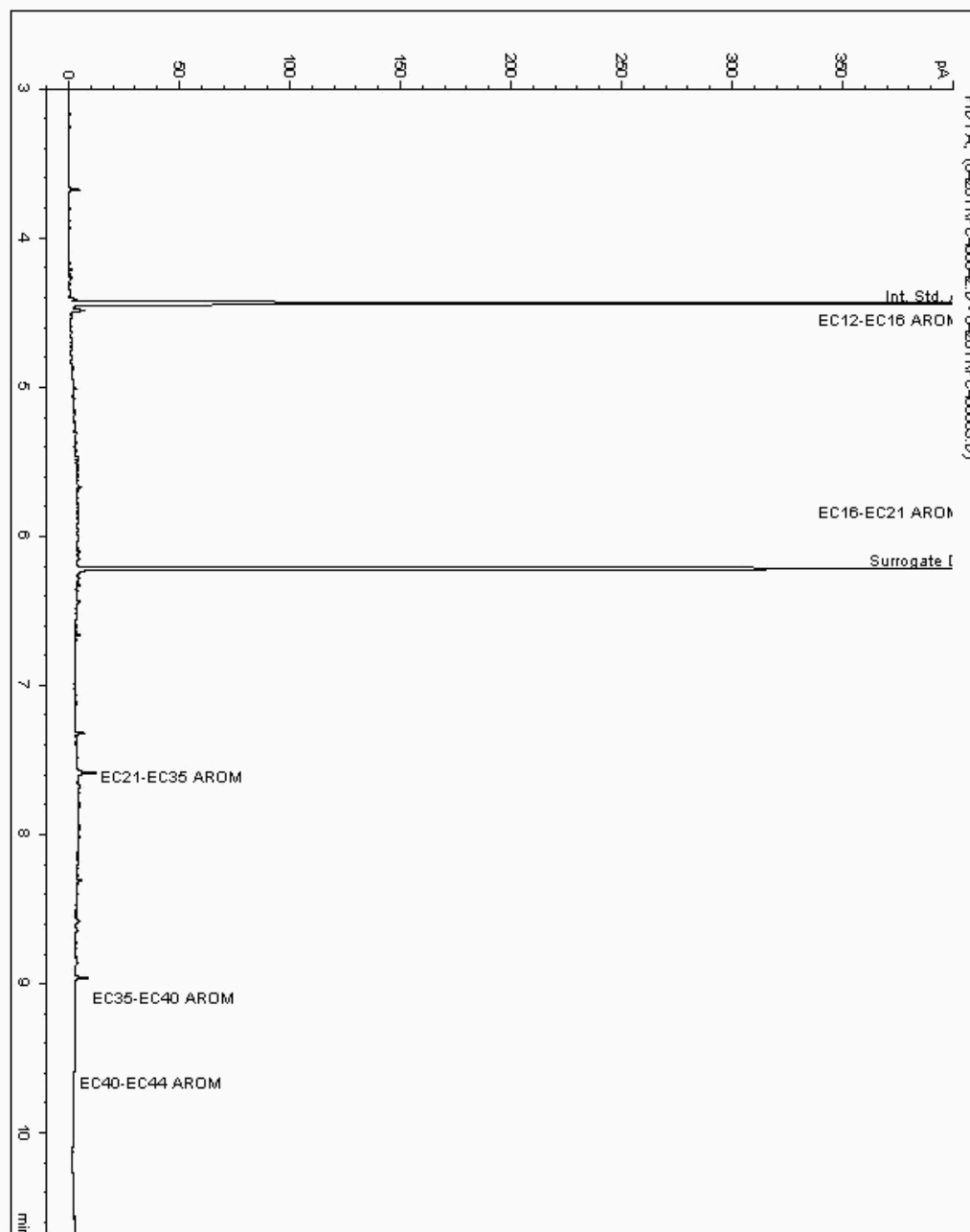
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3360144
Sample ID : DVP44

Depth : 1.40

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3384789-3360144
Date Acquired : 27/04/11 08:57:17 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

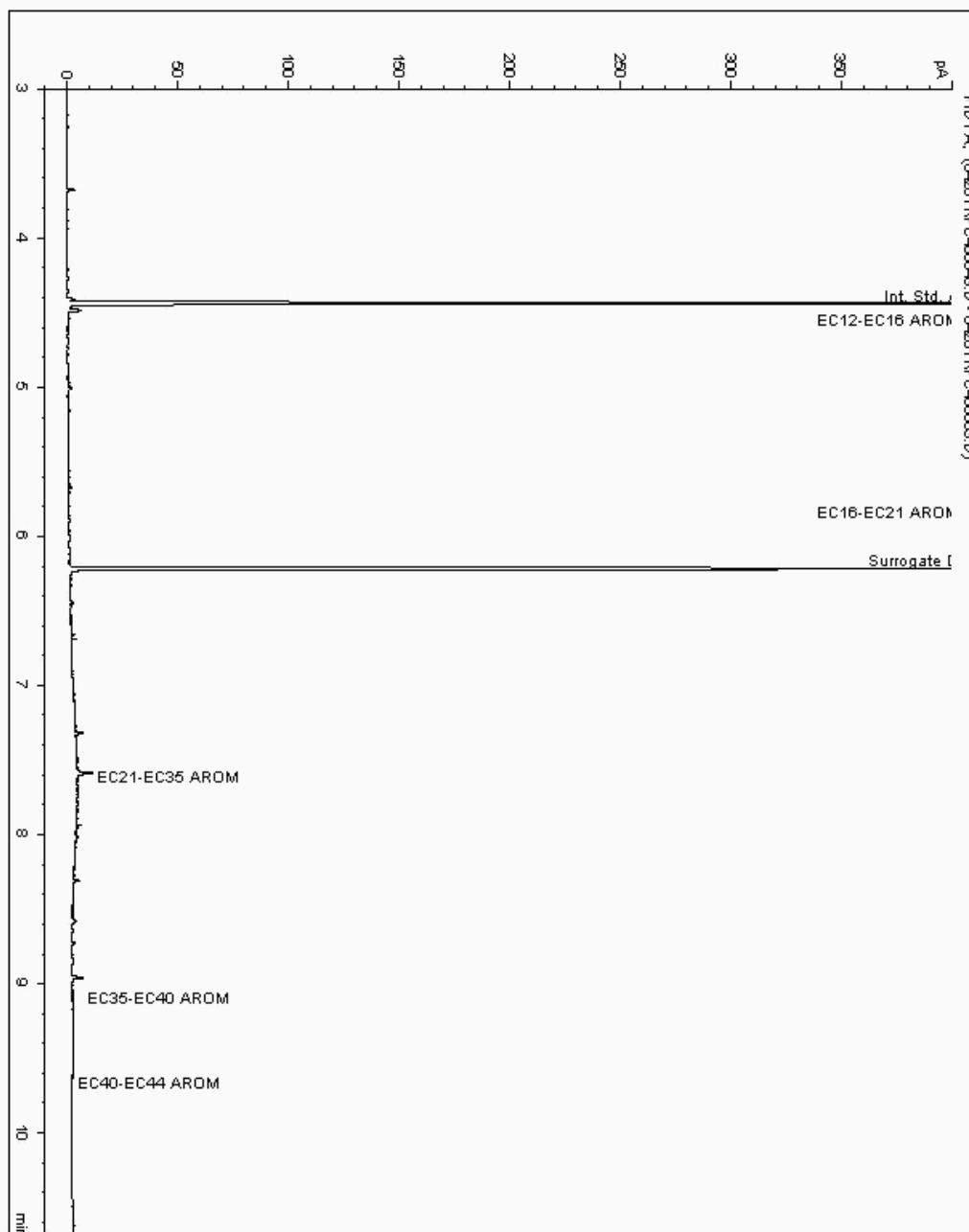
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3360158
Sample ID : DVP44

Depth : 2.40

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3384766-3360158
Date Acquired : 27/04/11 09:16:53 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

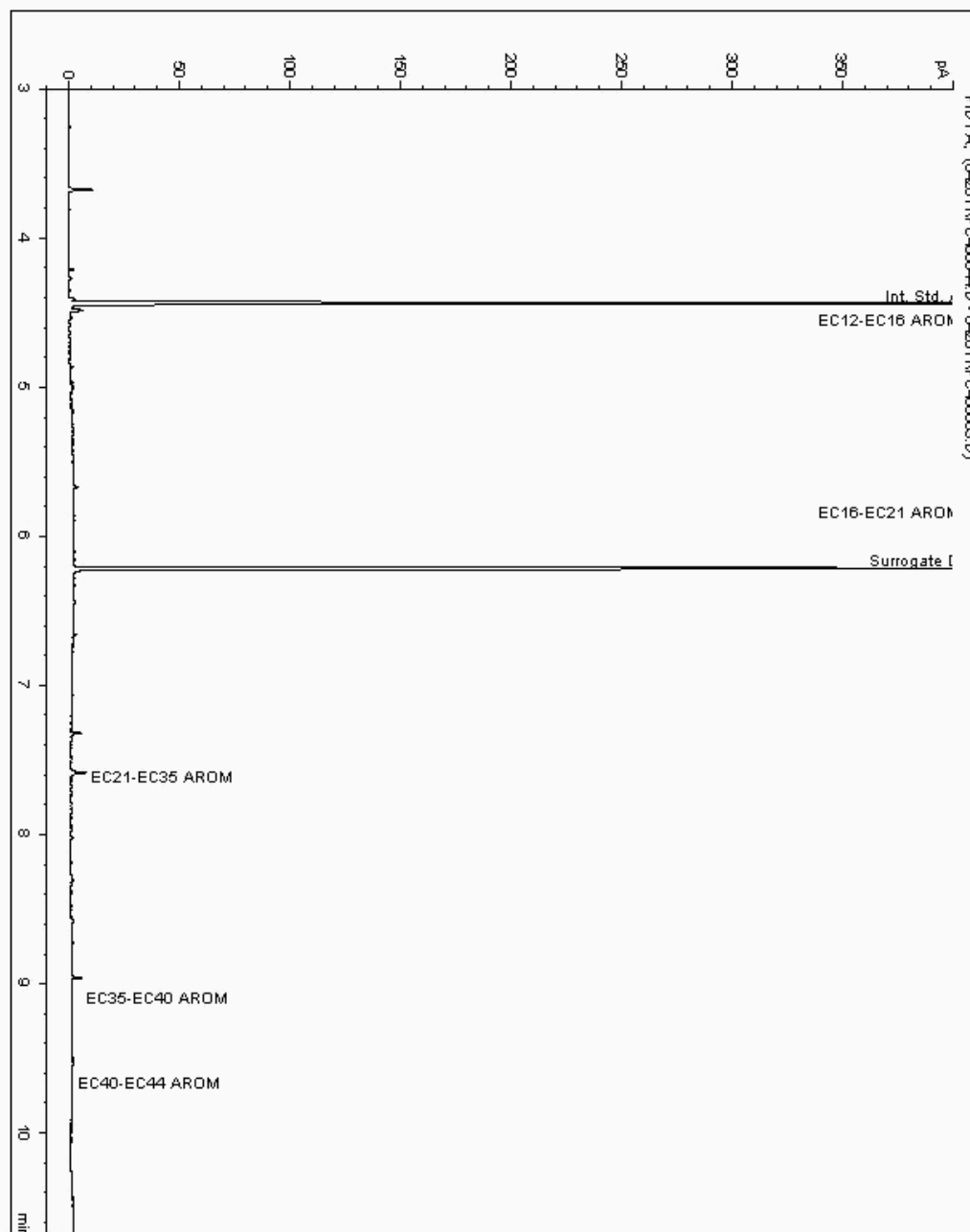
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3360333
Sample ID : DVP49

Depth : 0.80

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3384900-3360333
Date Acquired : 27/04/11 09:36:29 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

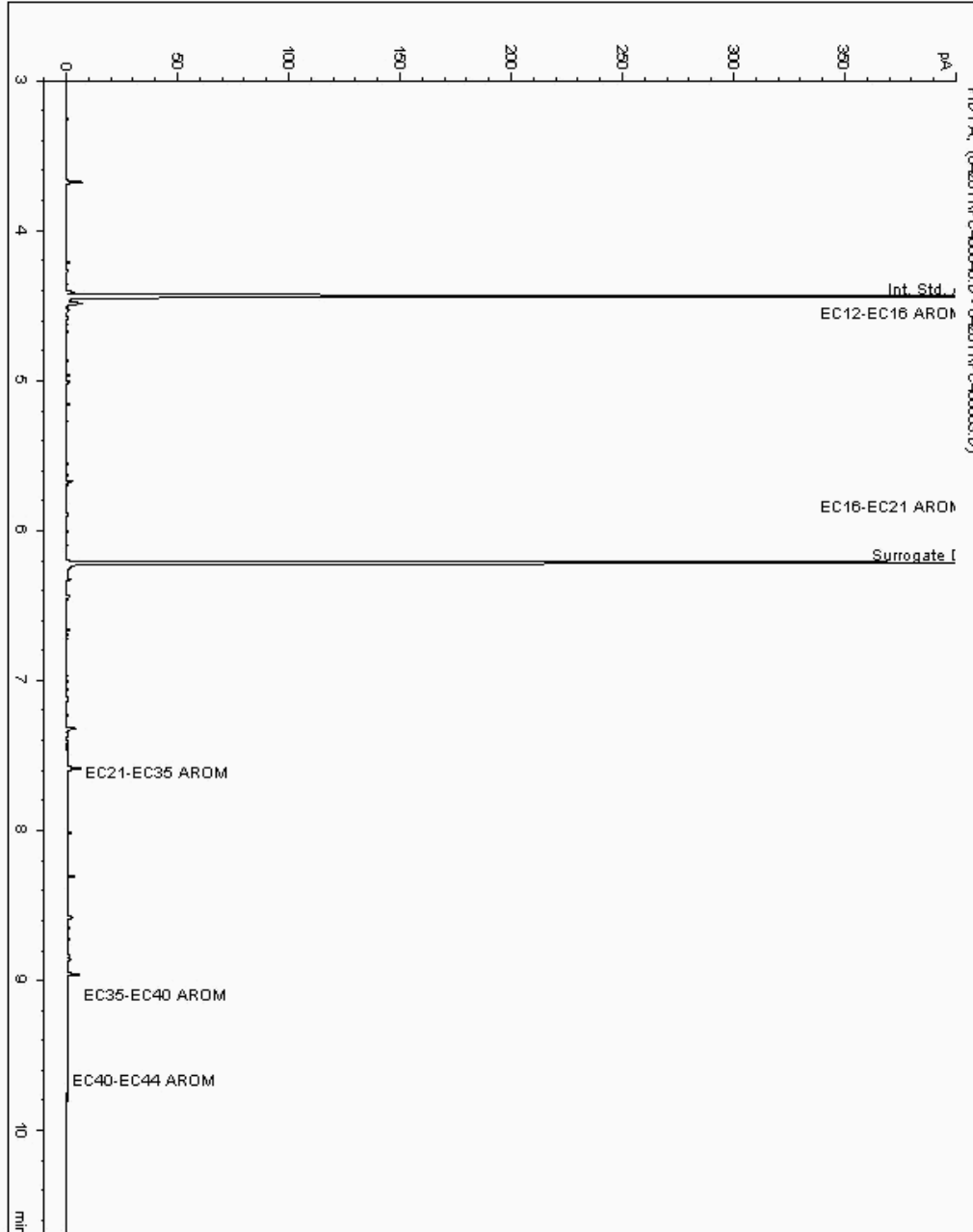
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3360359
Sample ID : DVP47

Depth : 2.50

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3384858-3360359
Date Acquired : 27/04/11 10:36:38 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

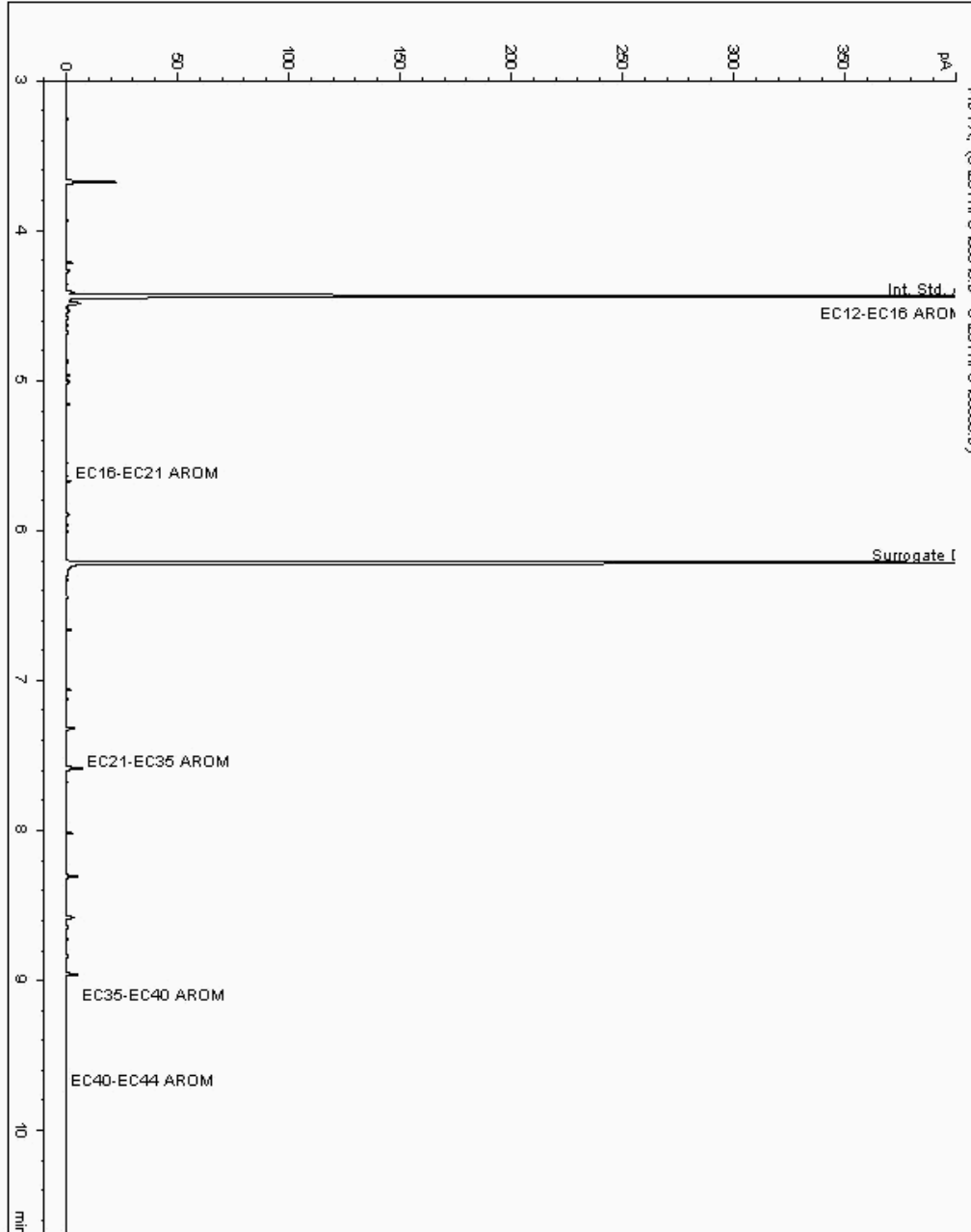
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3360425
Sample ID : DVP48

Depth : 1.50

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3384883-3360425
Date Acquired : 27/04/11 11:26:29 PM
Units : ppb
Dilution:





CERTIFICATE OF ANALYSIS

SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

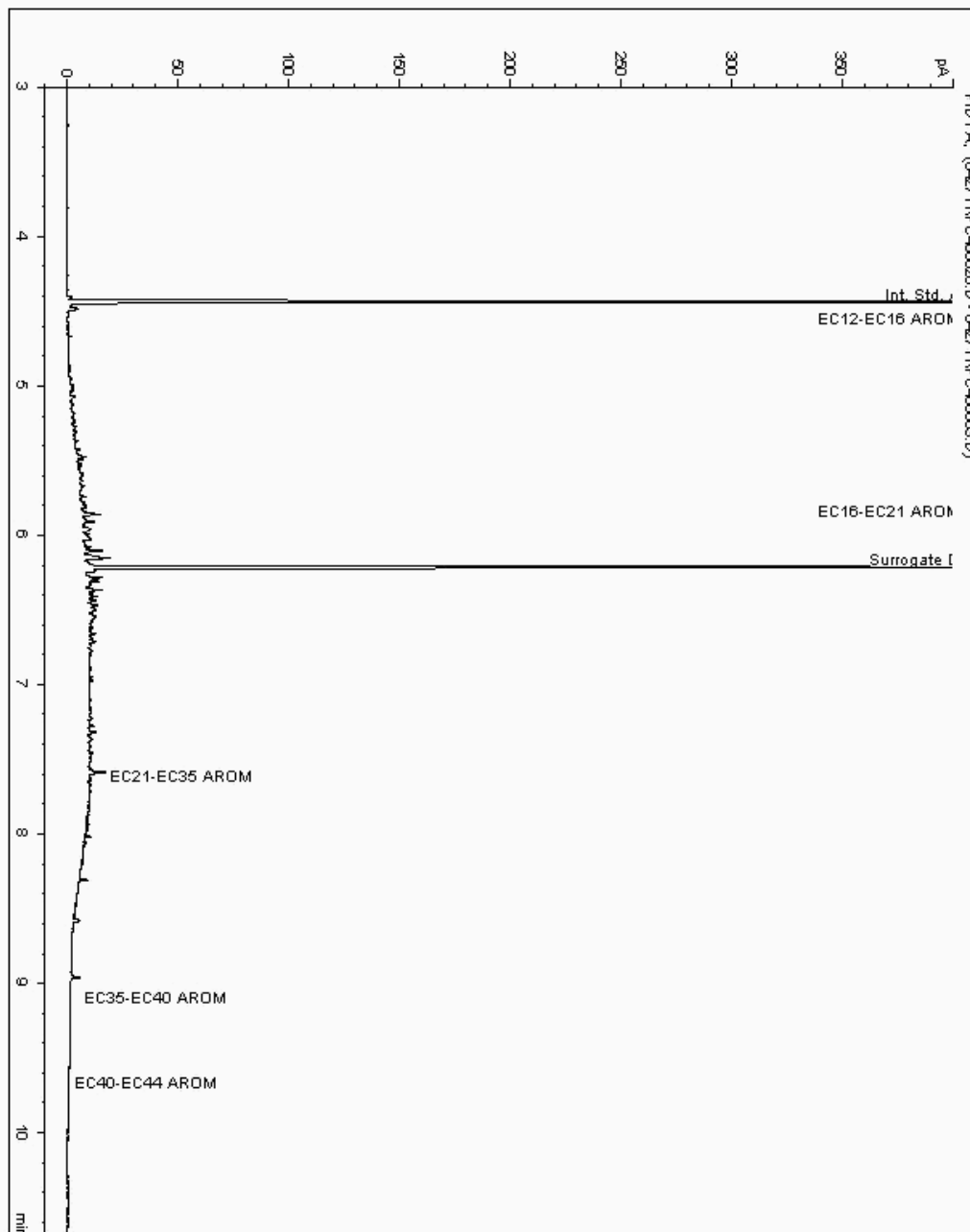
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3360860
Sample ID : DVP51

Depth : 1.50

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3384983-3360860
Date Acquired : 27/04/11 22:01:39 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

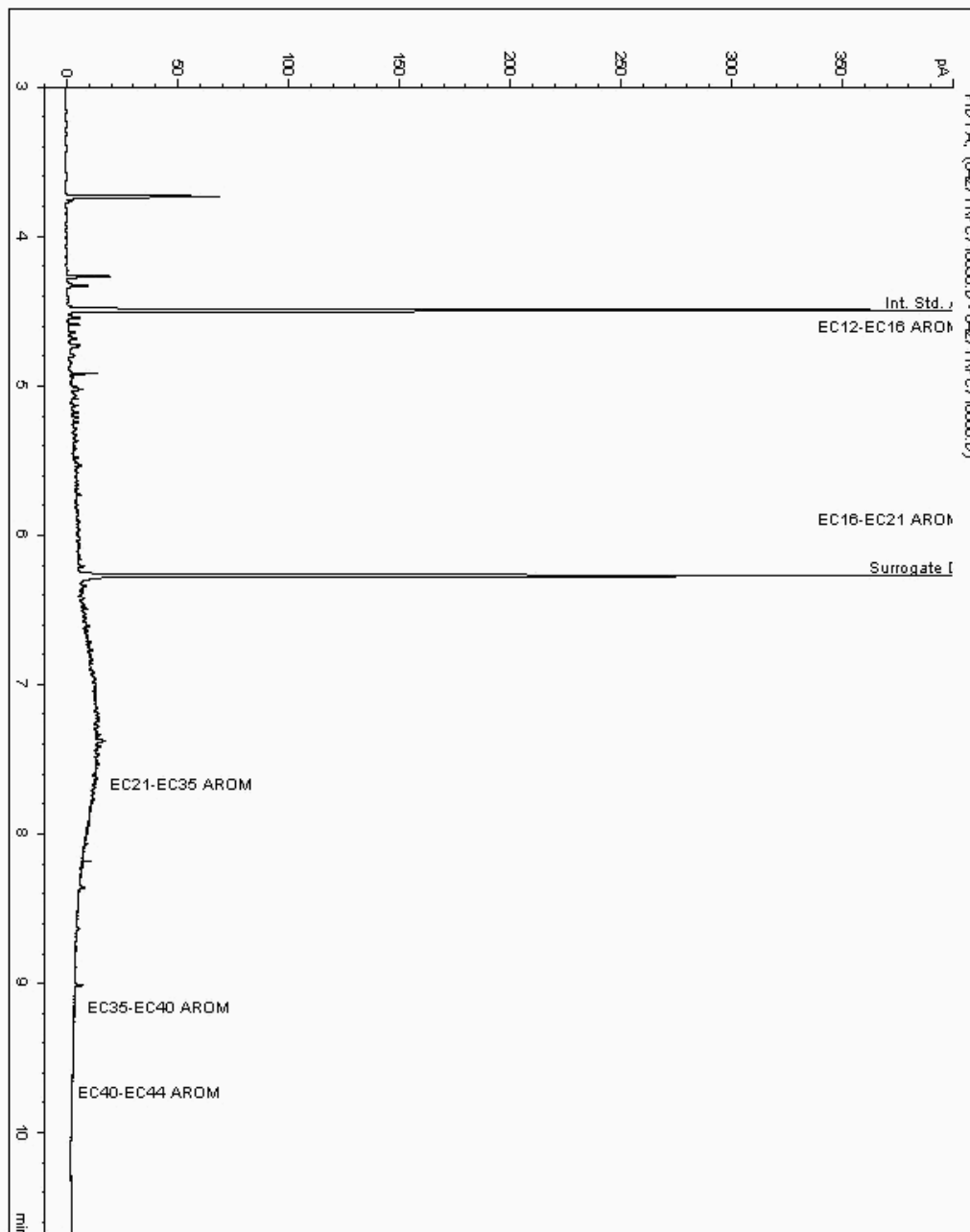
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3365707
Sample ID : DVP46

Depth : 0.20

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3384811-3365707
Date Acquired : 28/04/2011 06:36:48 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

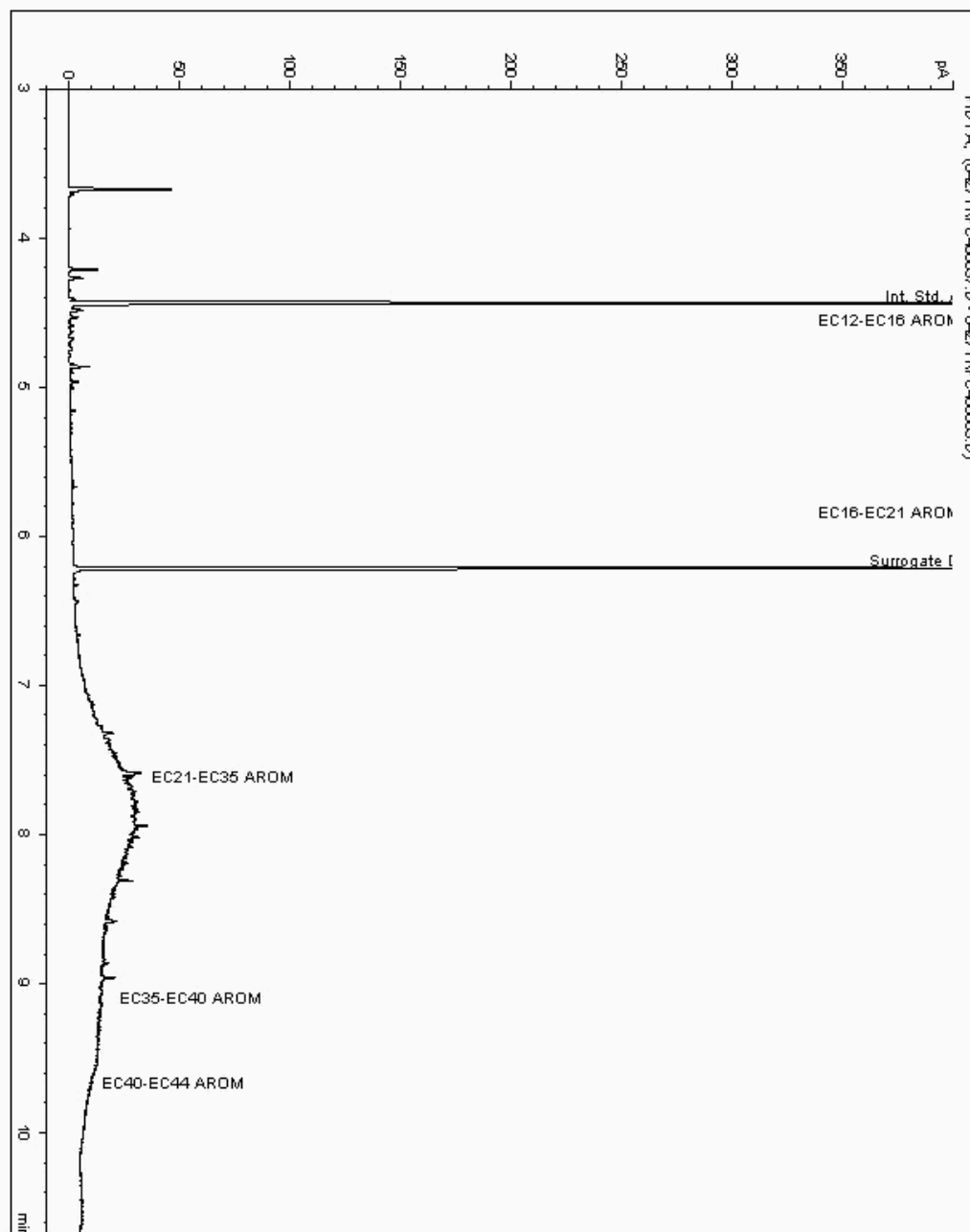
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3365818
Sample ID : DVP44

Depth : 0.30

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3384776-3365818
Date Acquired : 28/04/11 03:10:45 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

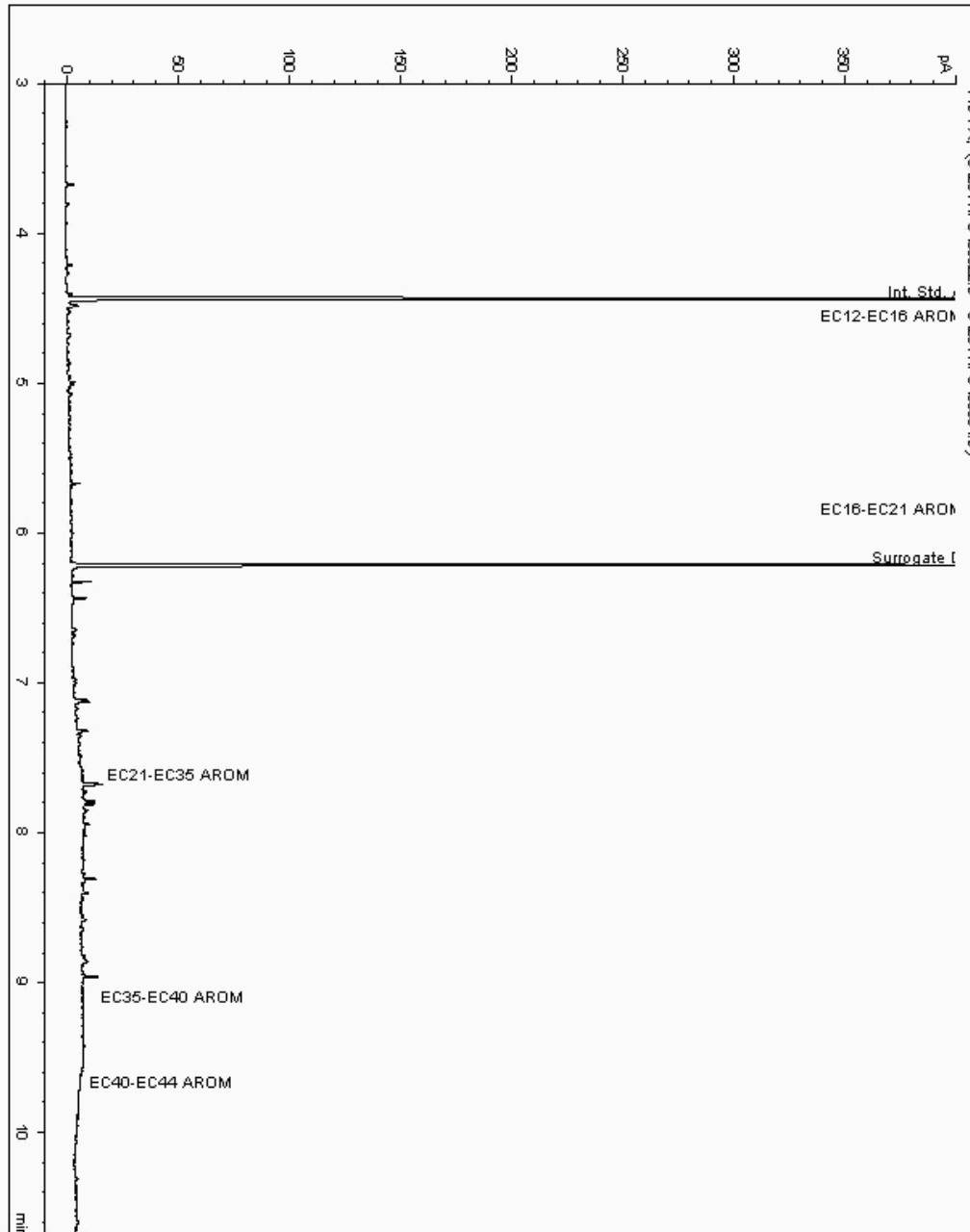
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3372098
Sample ID : DVP47

Depth : 0.20

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3384846-3372098
Date Acquired : 28/04/11 20:17:45 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

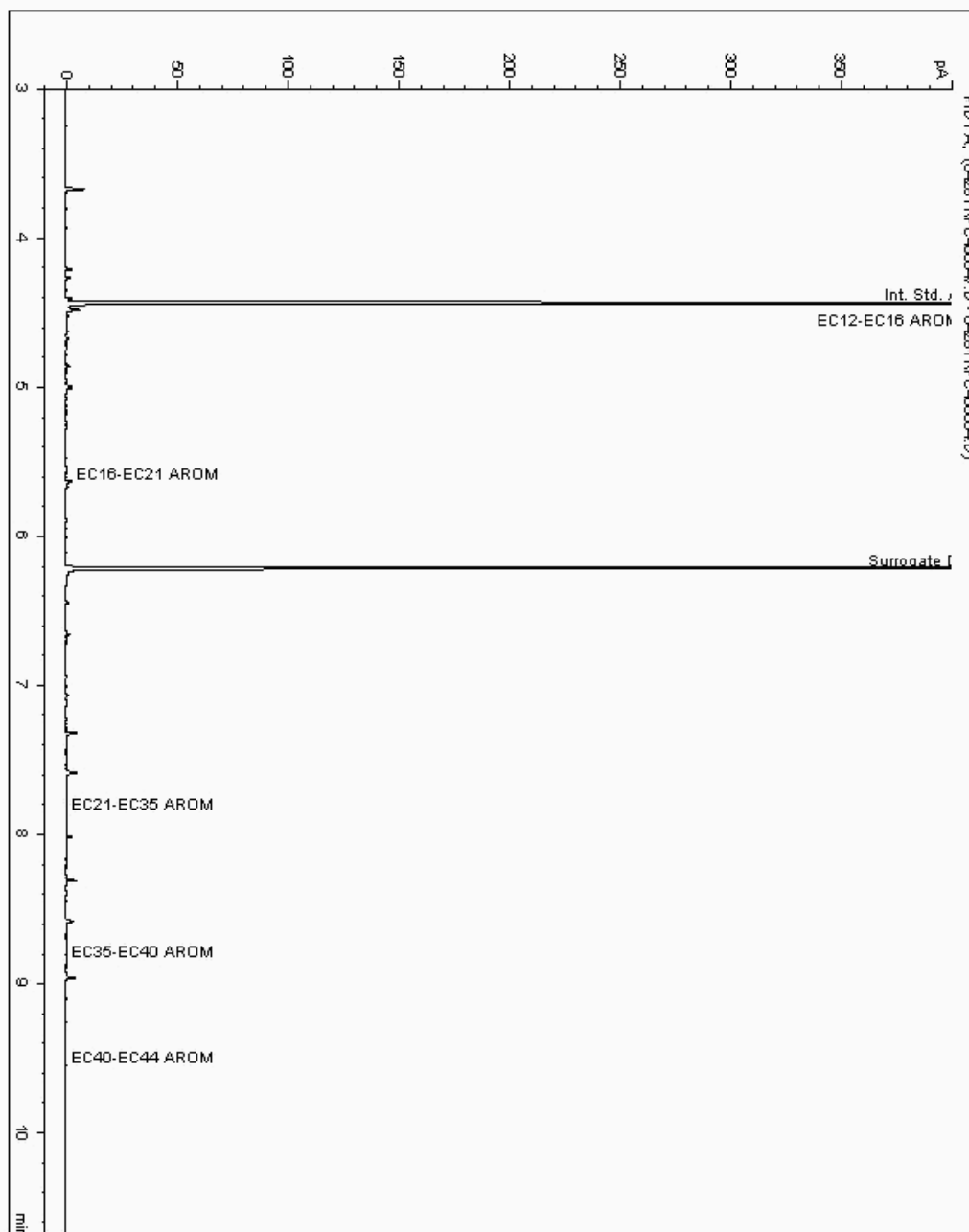
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3373049
Sample ID : DVP48

Depth : 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3384870-3373049
Date Acquired : 29/04/11 03:38:00 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

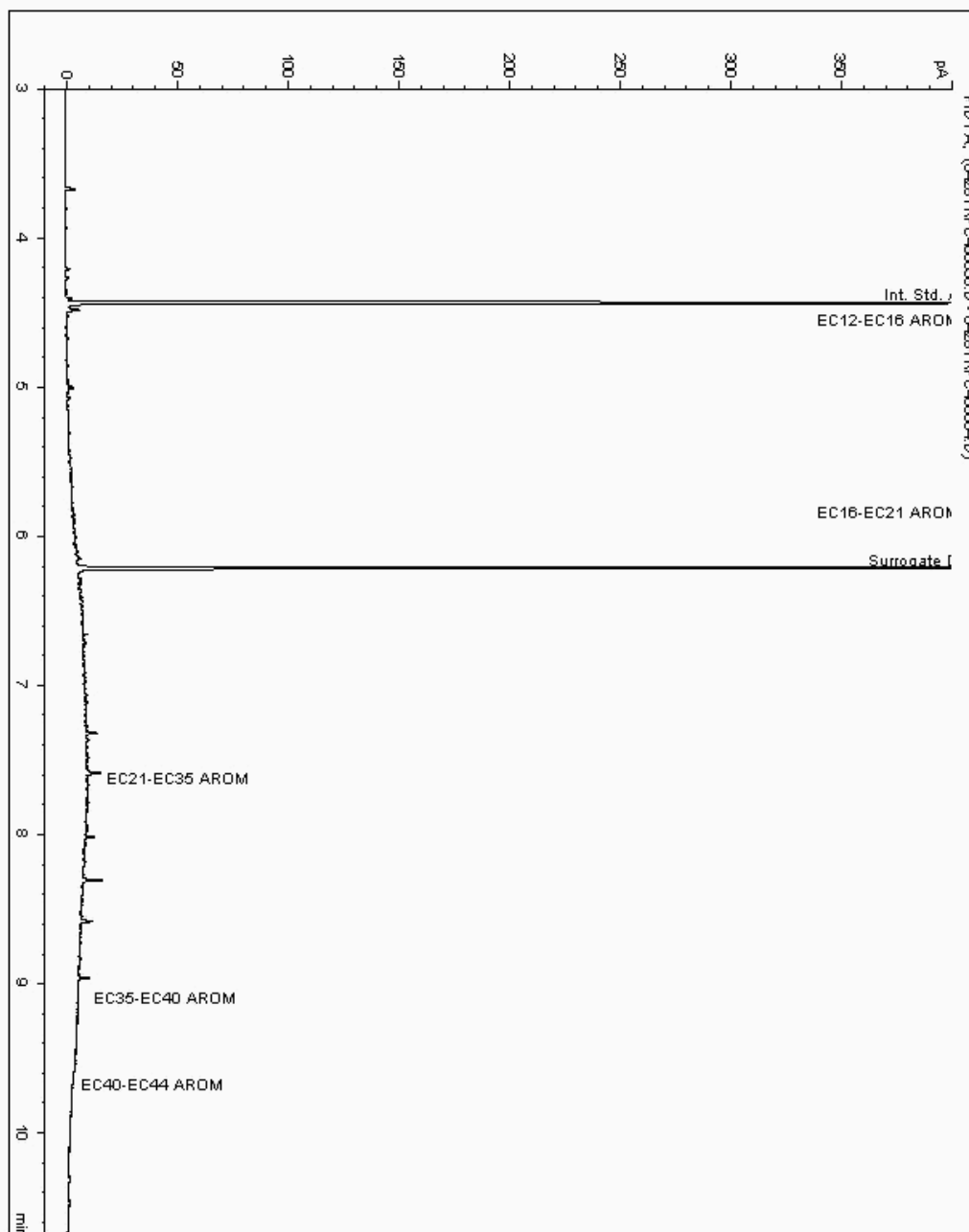
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3373093
Sample ID : DVP50

Depth : 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3384939-3373093
Date Acquired : 29/04/11 04:37:40 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

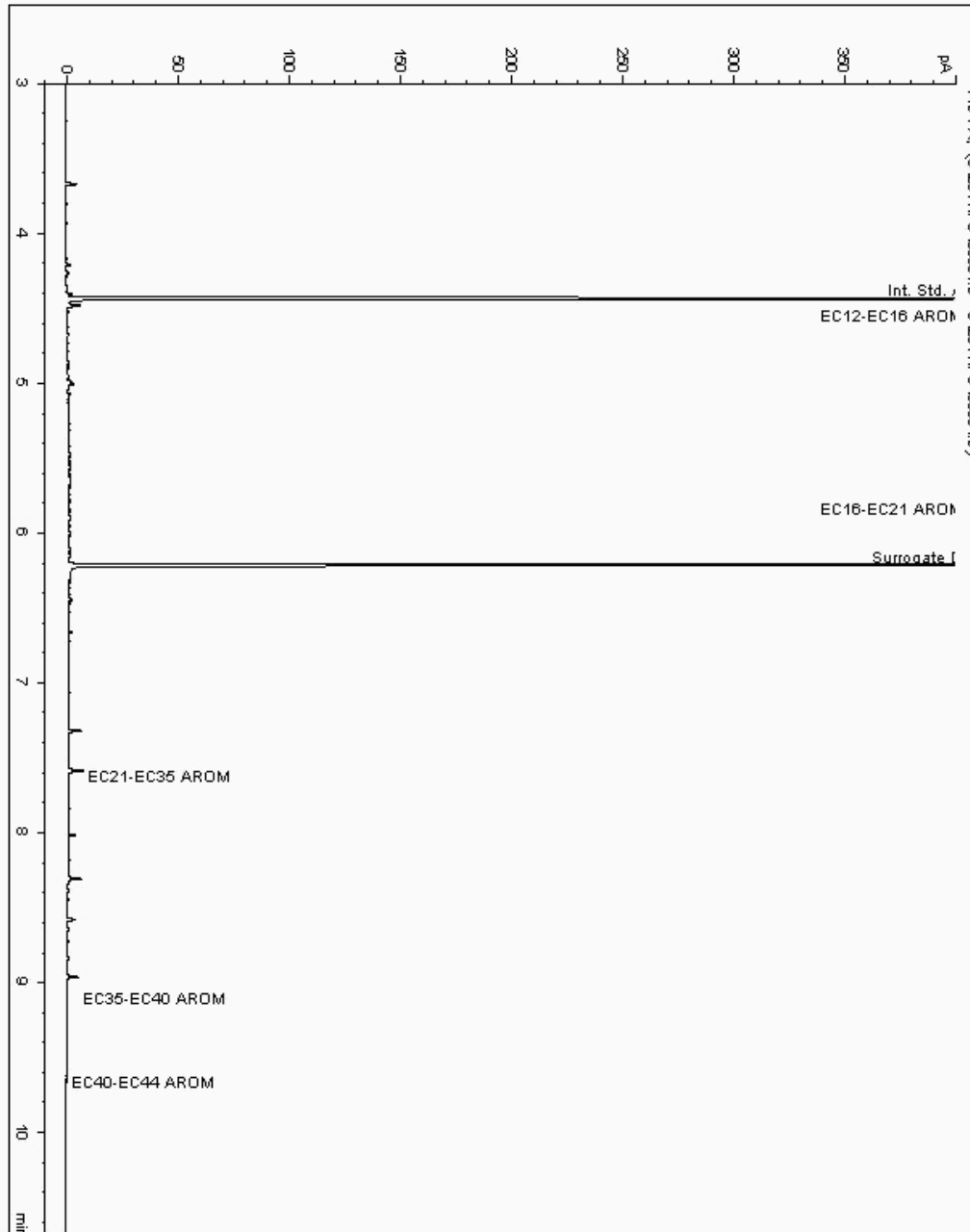
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3373105
Sample ID : DVP51

Depth : 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3385029-3373105
Date Acquired : 29/04/11 04:57:27 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

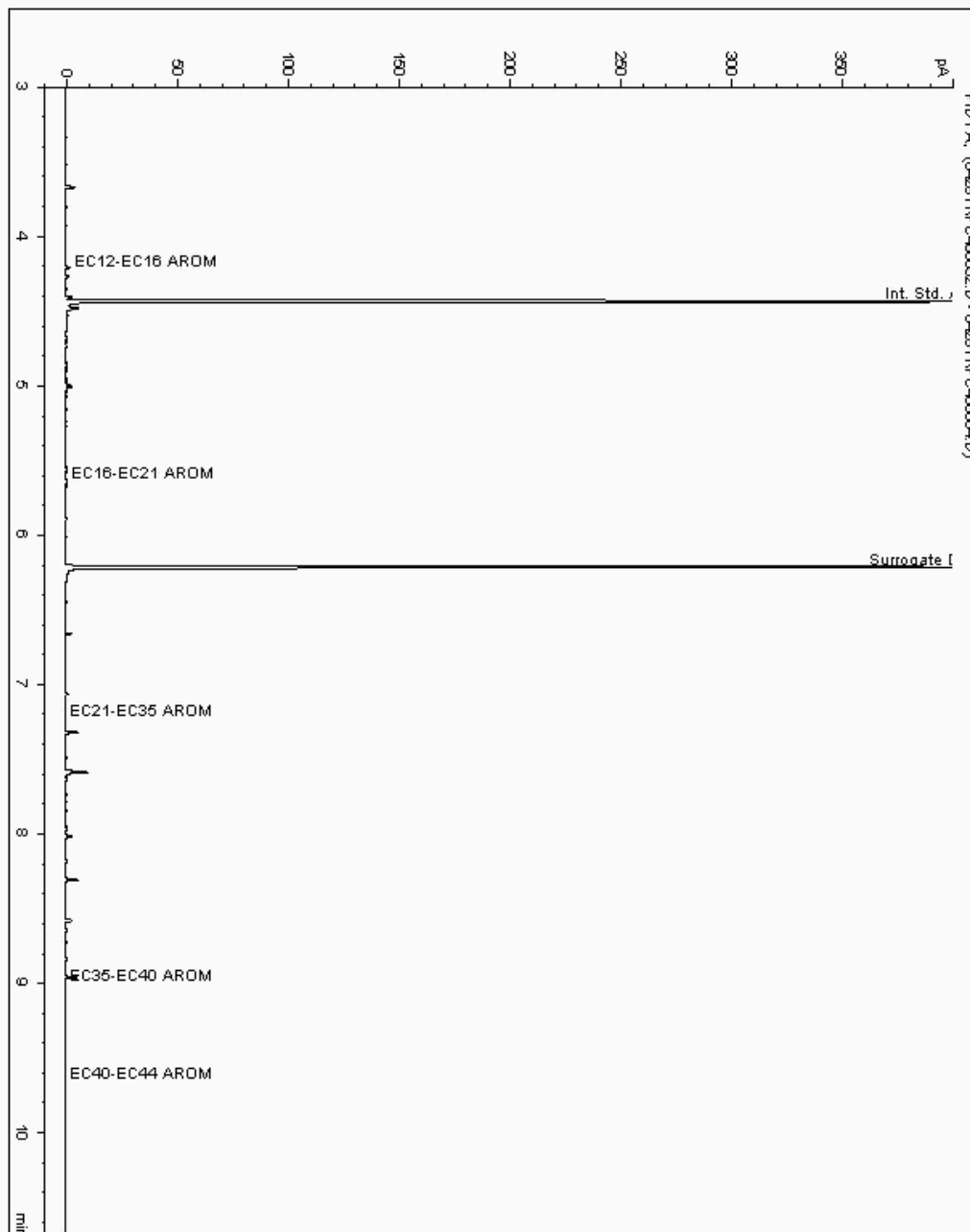
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 3373224
Sample ID : DVP45

Depth : 0.50

Alcontrol/Geochem Analytical Services
Speciated TPH - AROM (C12 - C40)

Sample Identity: 3385081-3373224
Date Acquired : 29/04/11 05:17:24 PM
Units : ppb
Dilution:





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

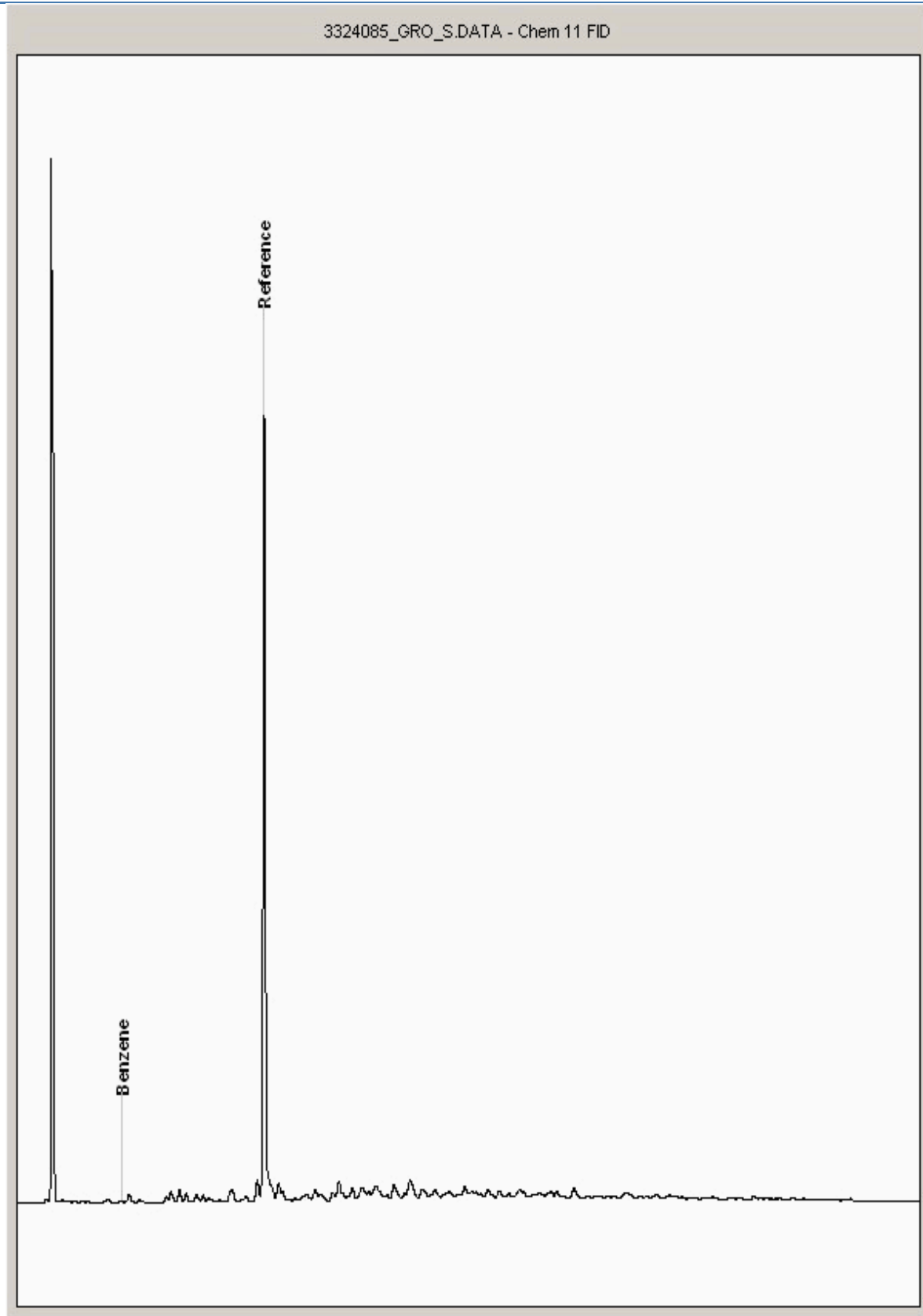
Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3324085
Sample ID : DVP44

Depth : 2.40





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

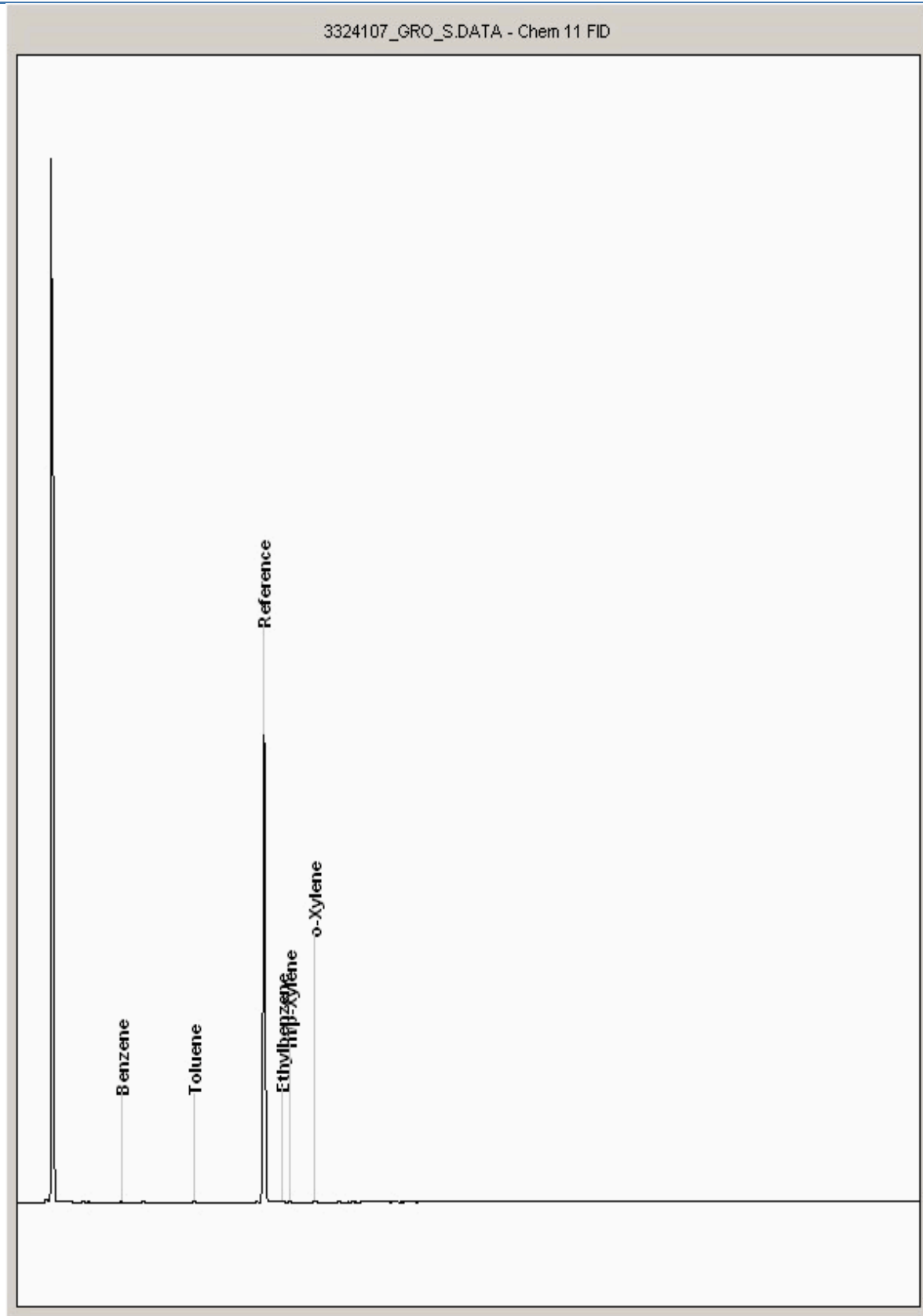
Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3324107
Sample ID : DVP44

Depth : 0.30





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

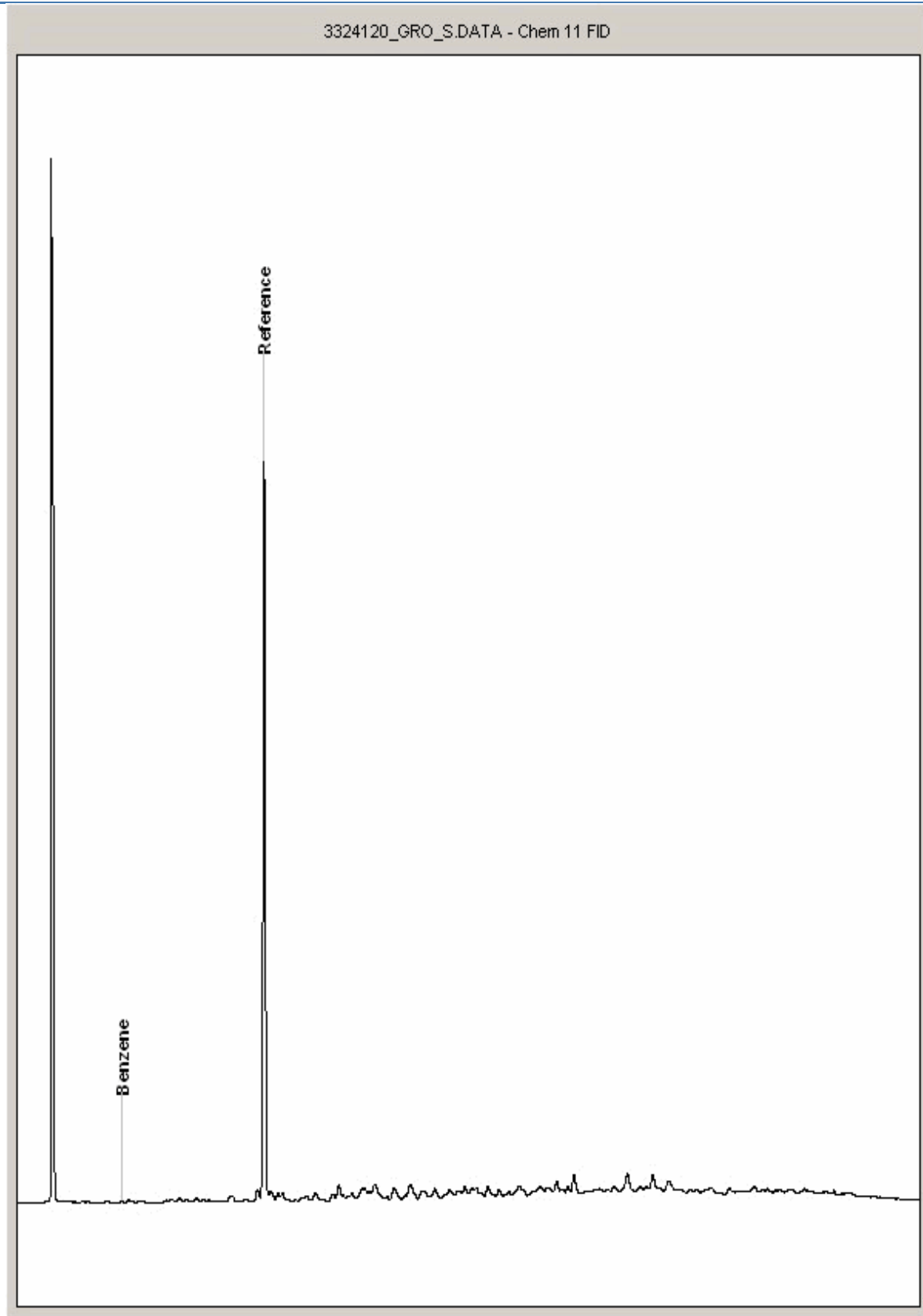
Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3324120
Sample ID : DVP44

Depth : 1.40





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

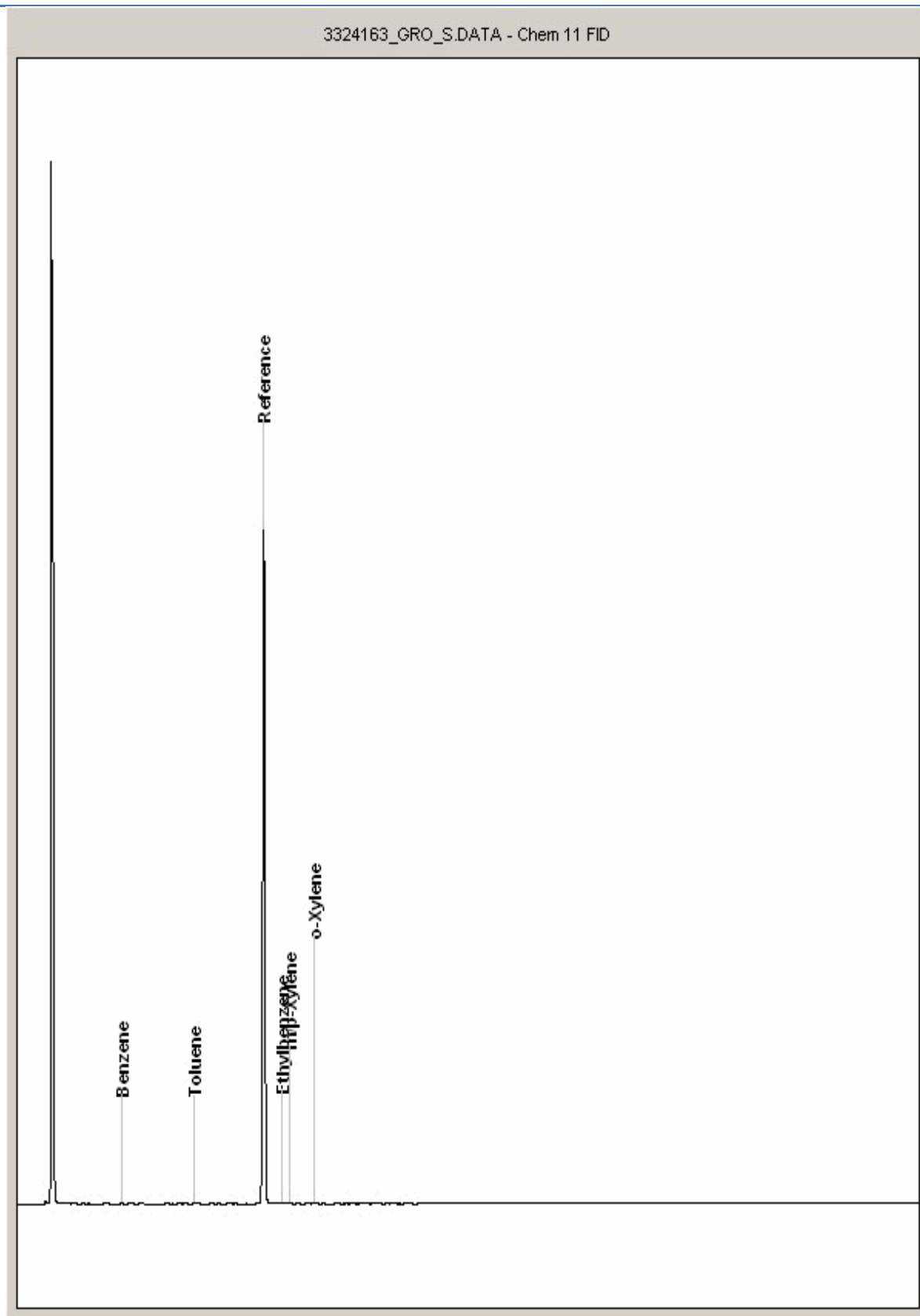
Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3324163
Sample ID : DVP45

Depth : 1.50





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

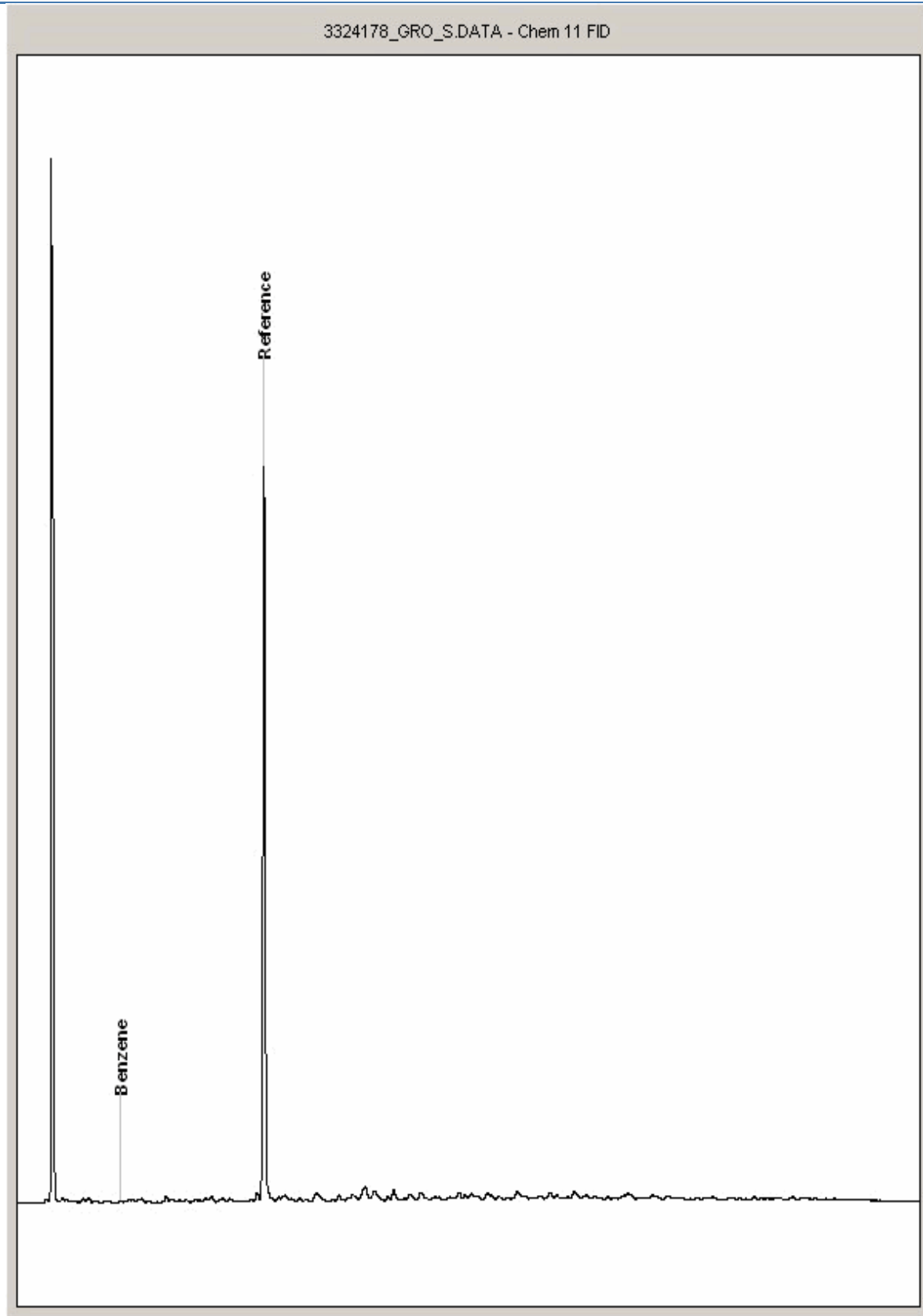
Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3324178
Sample ID : DVP46

Depth : 0.20





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

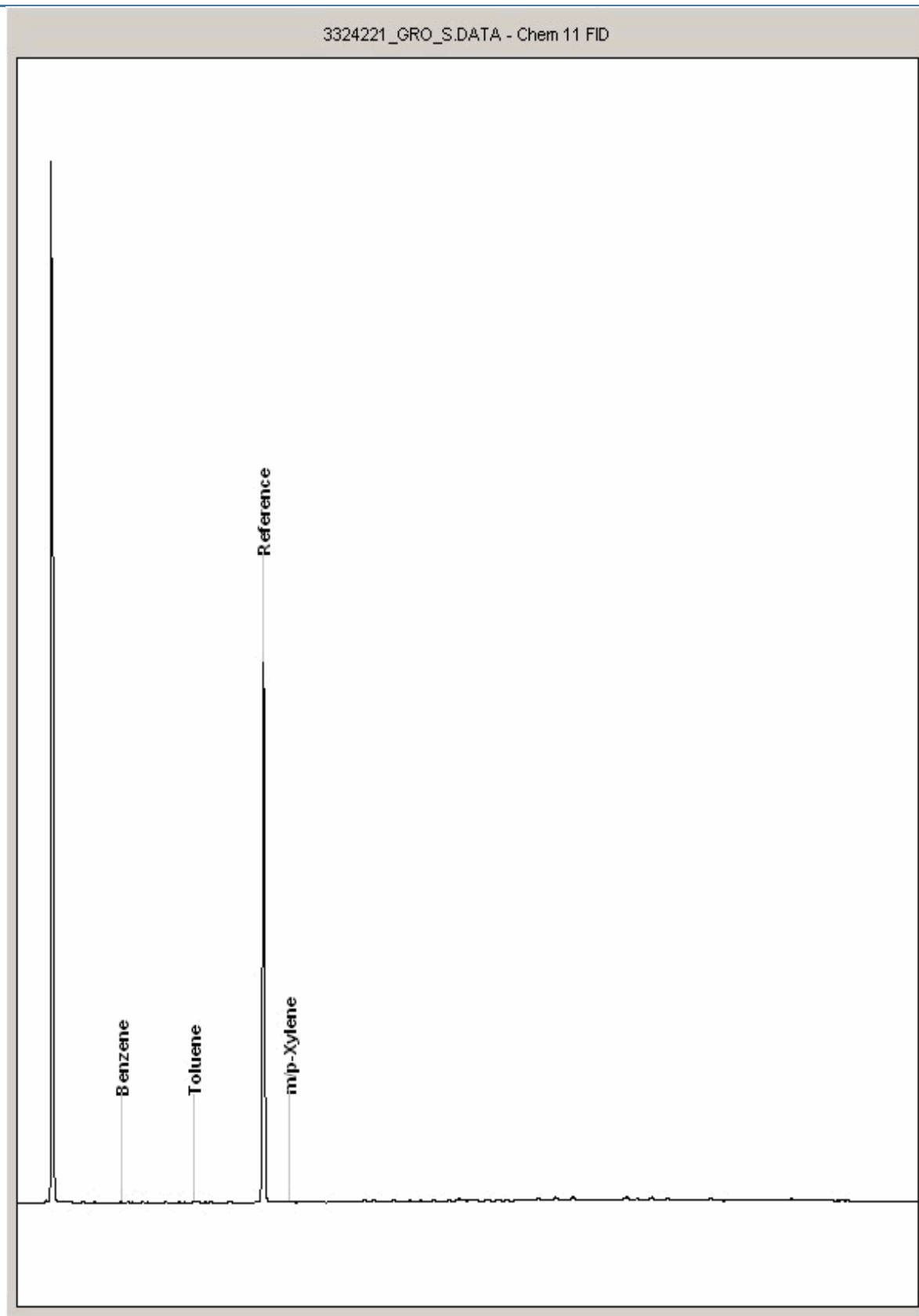
Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3324221
Sample ID : DVP47

Depth : 0.20





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

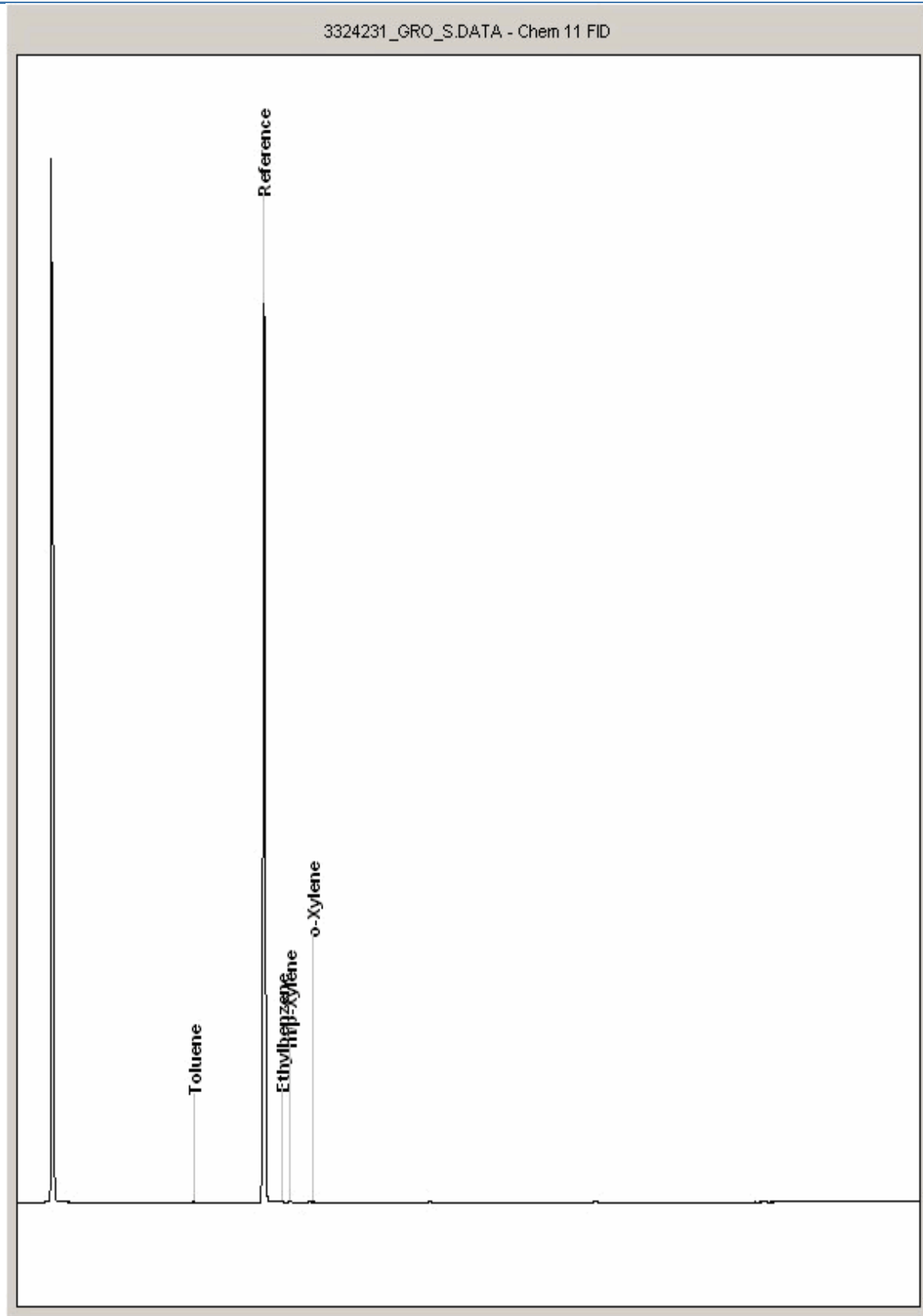
Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3324231
Sample ID : DVP47

Depth : 2.50





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

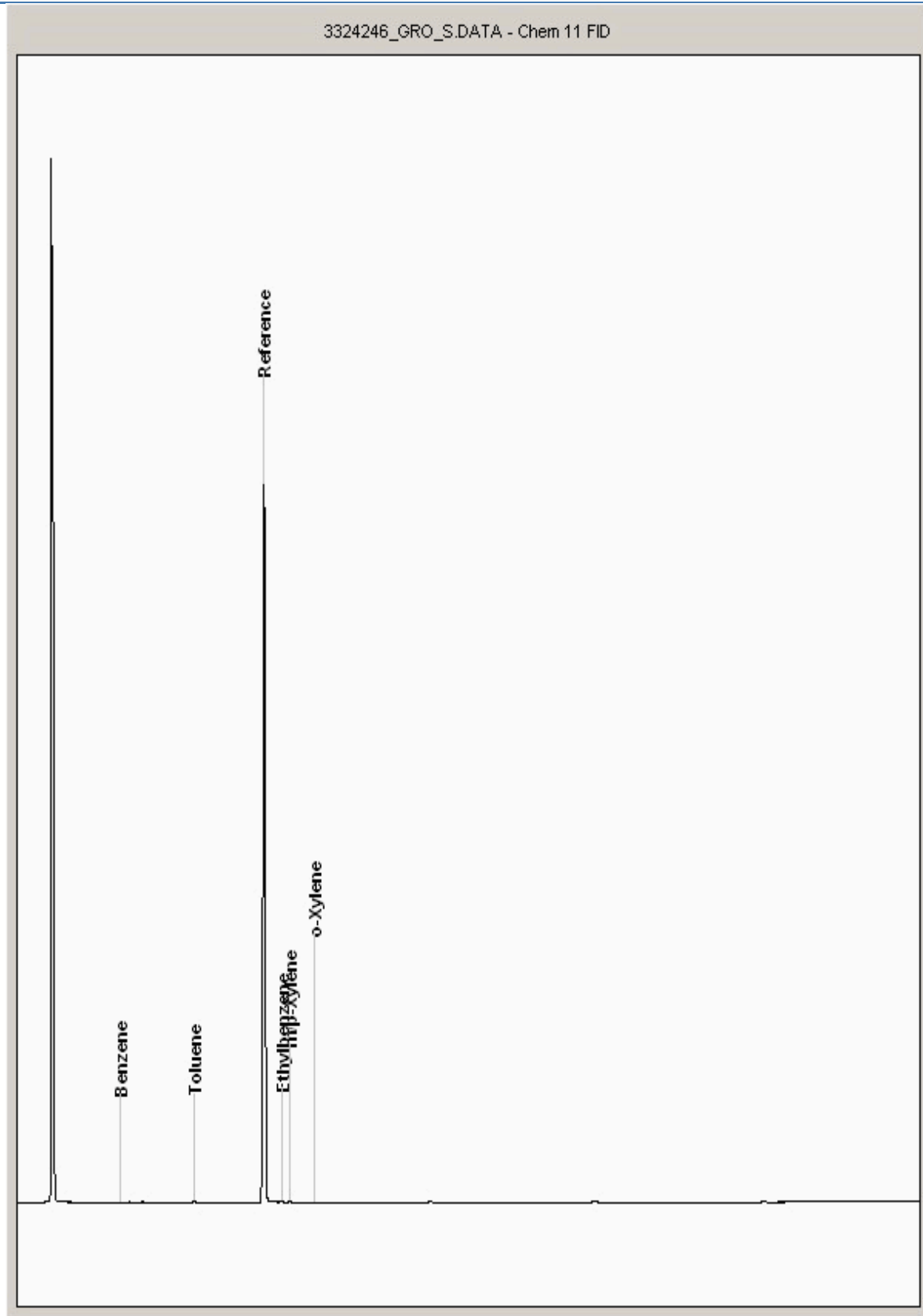
Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3324246
Sample ID : DVP48

Depth : 0.50





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

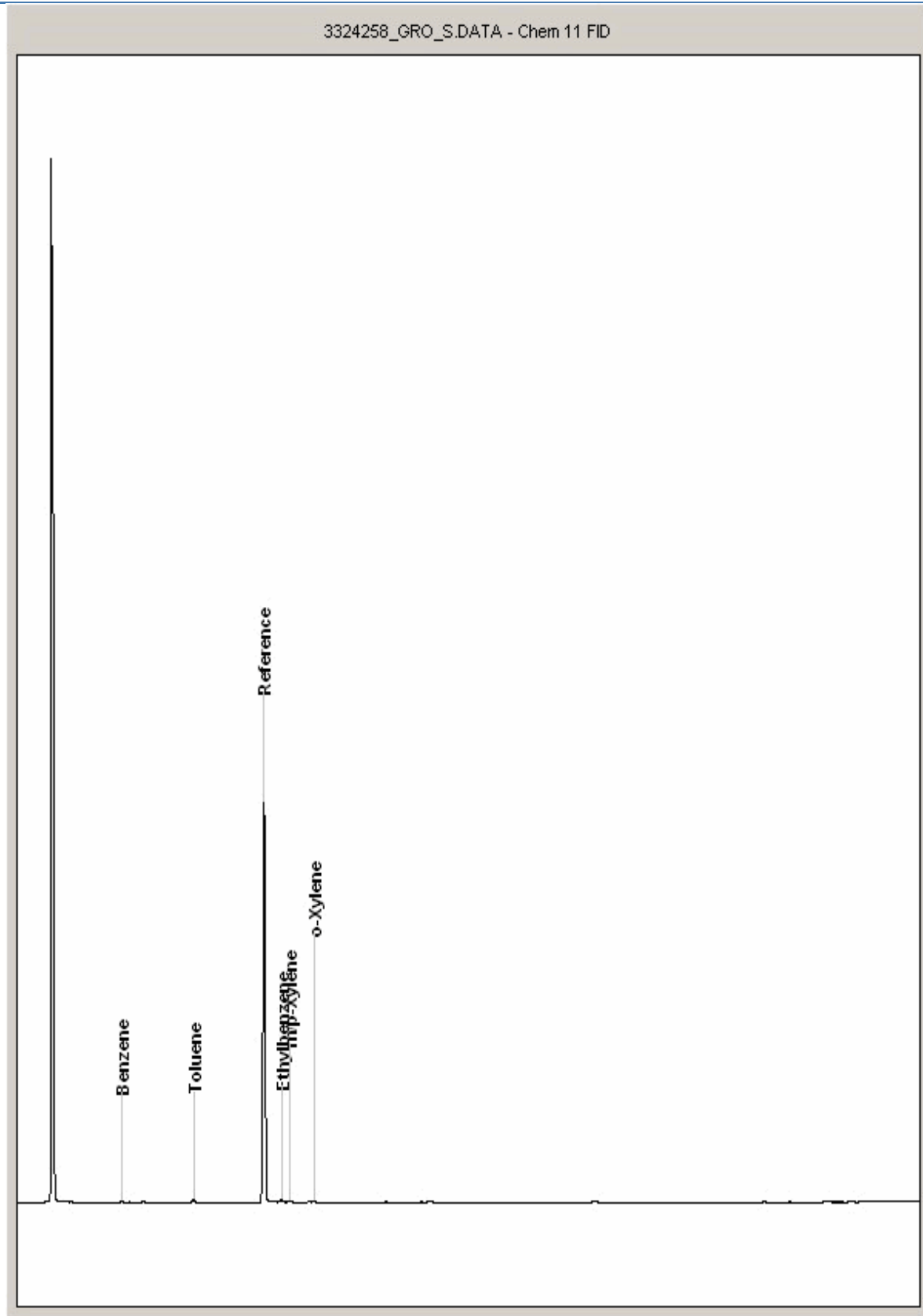
Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3324258
Sample ID : DVP48

Depth : 1.50





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

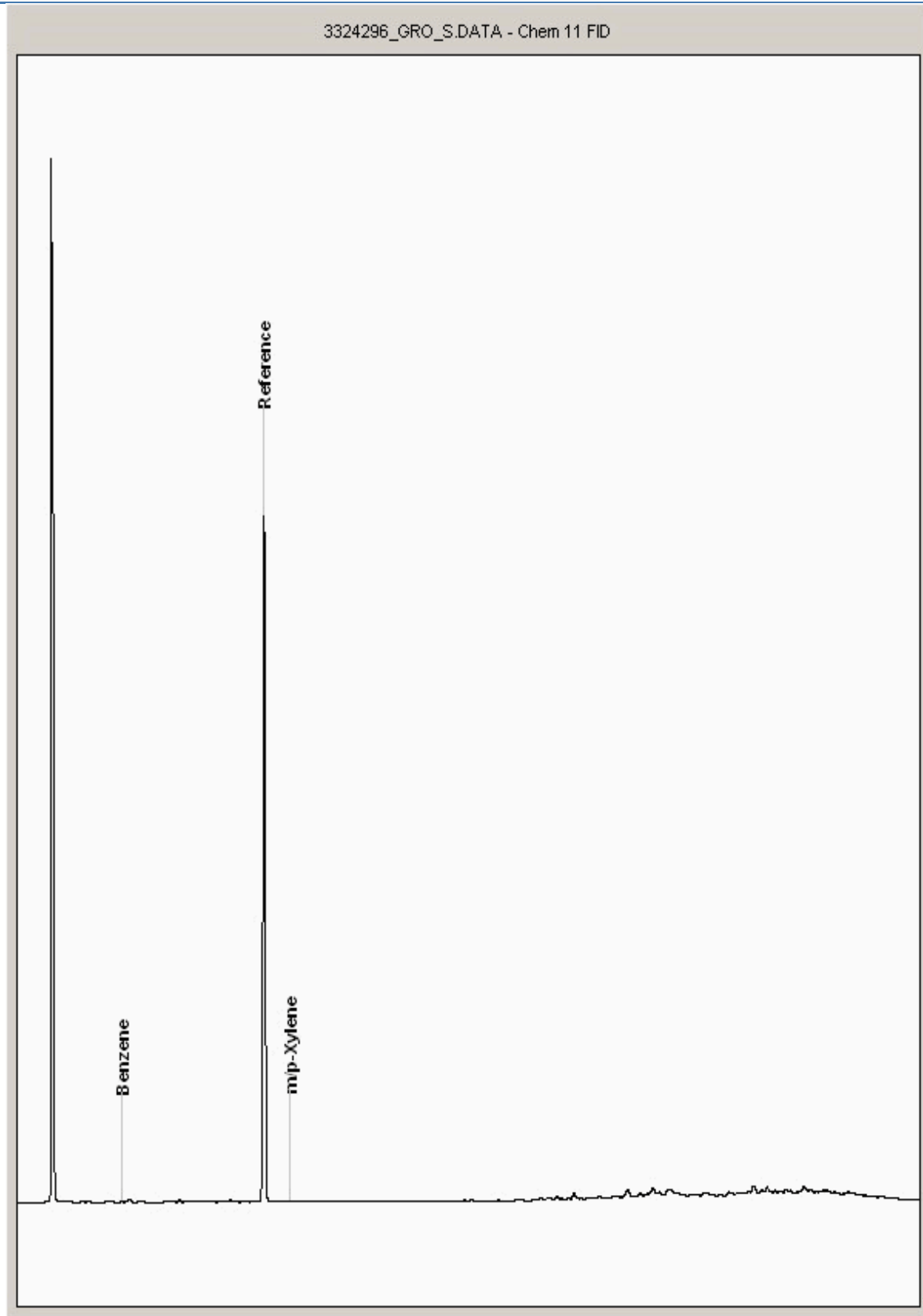
Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3324296
Sample ID : DVP49

Depth : 0.80





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

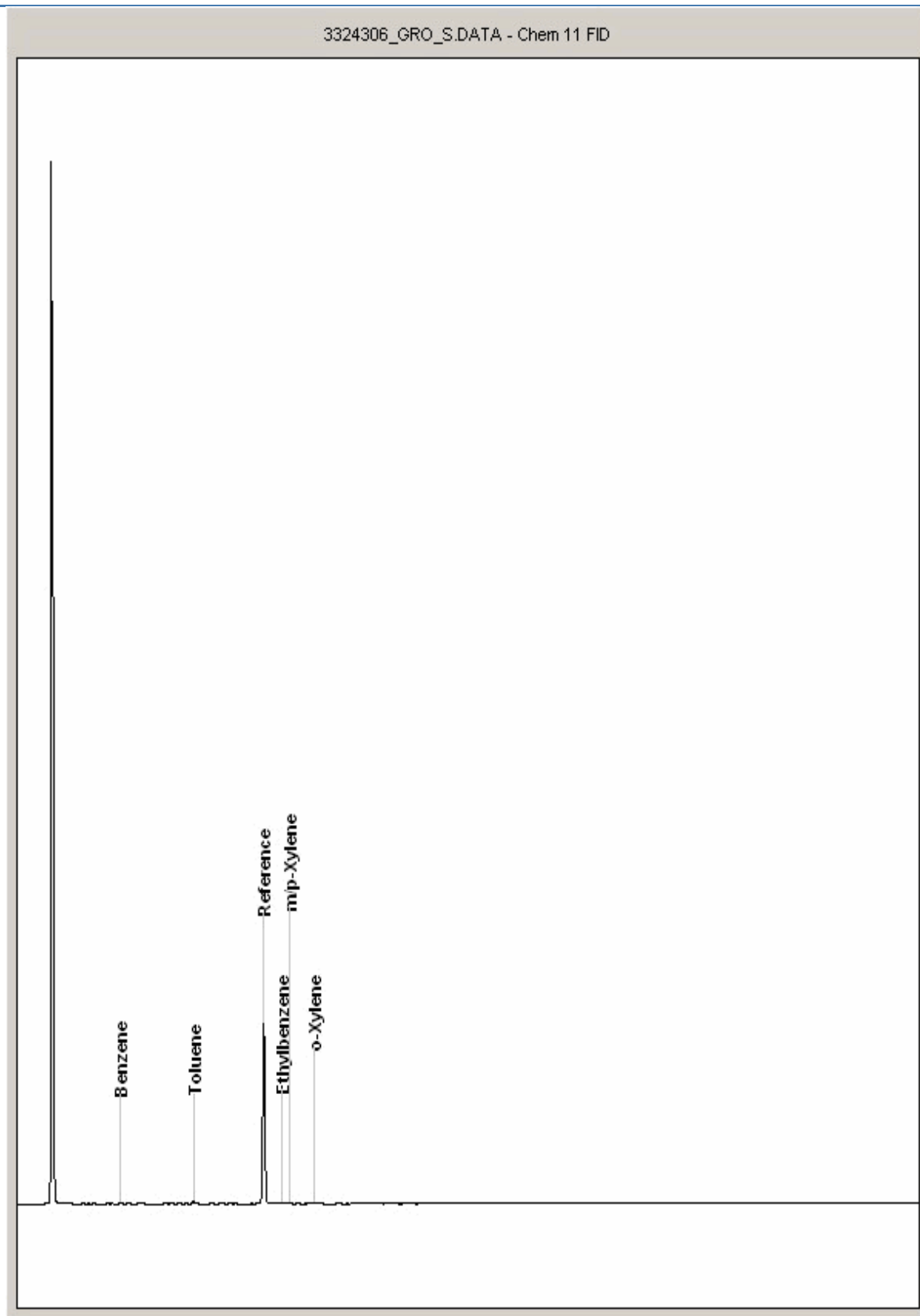
Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3324306
Sample ID : DVP49

Depth : 1.50





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

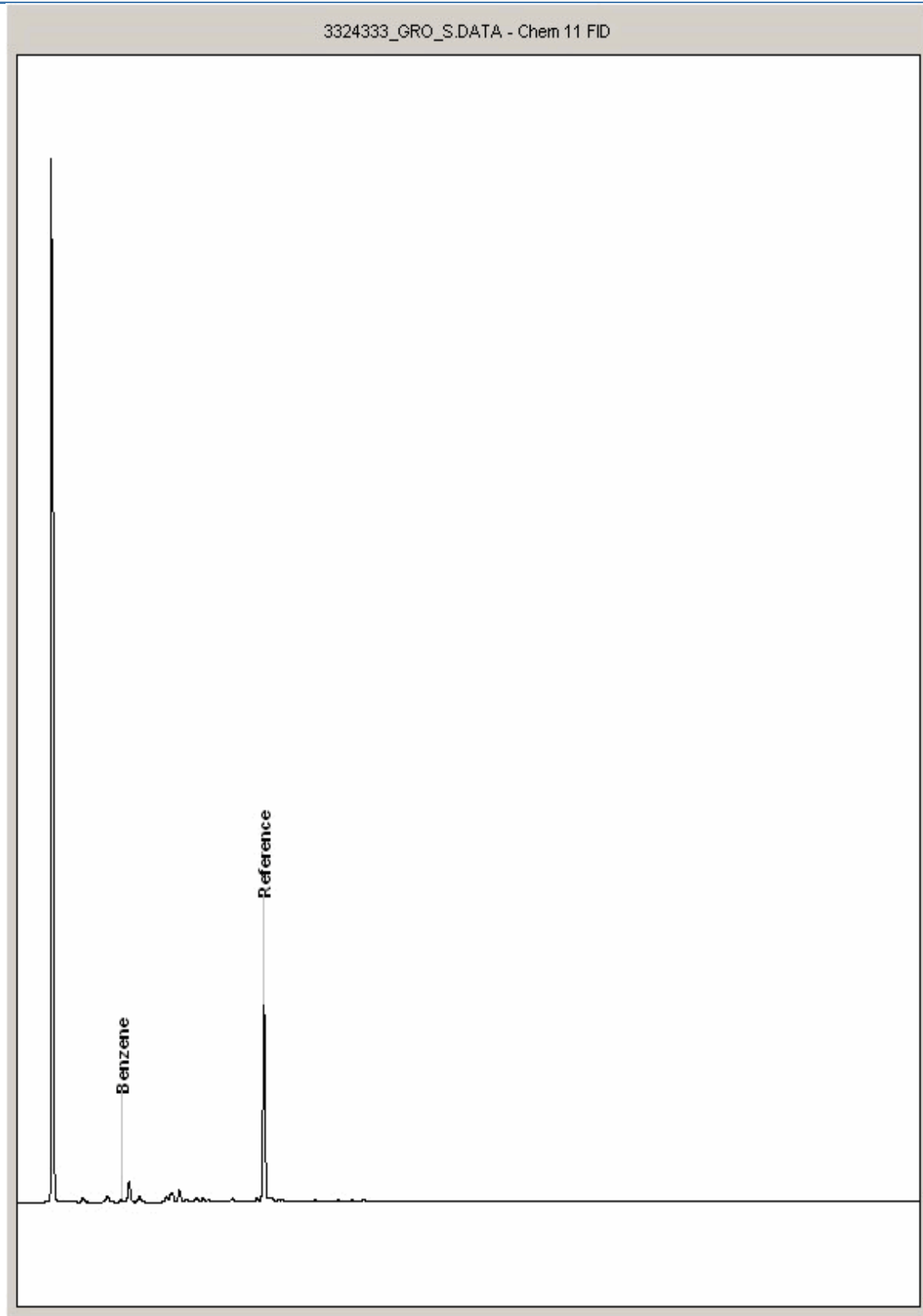
Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3324333
Sample ID : DVP50

Depth : 1.50





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

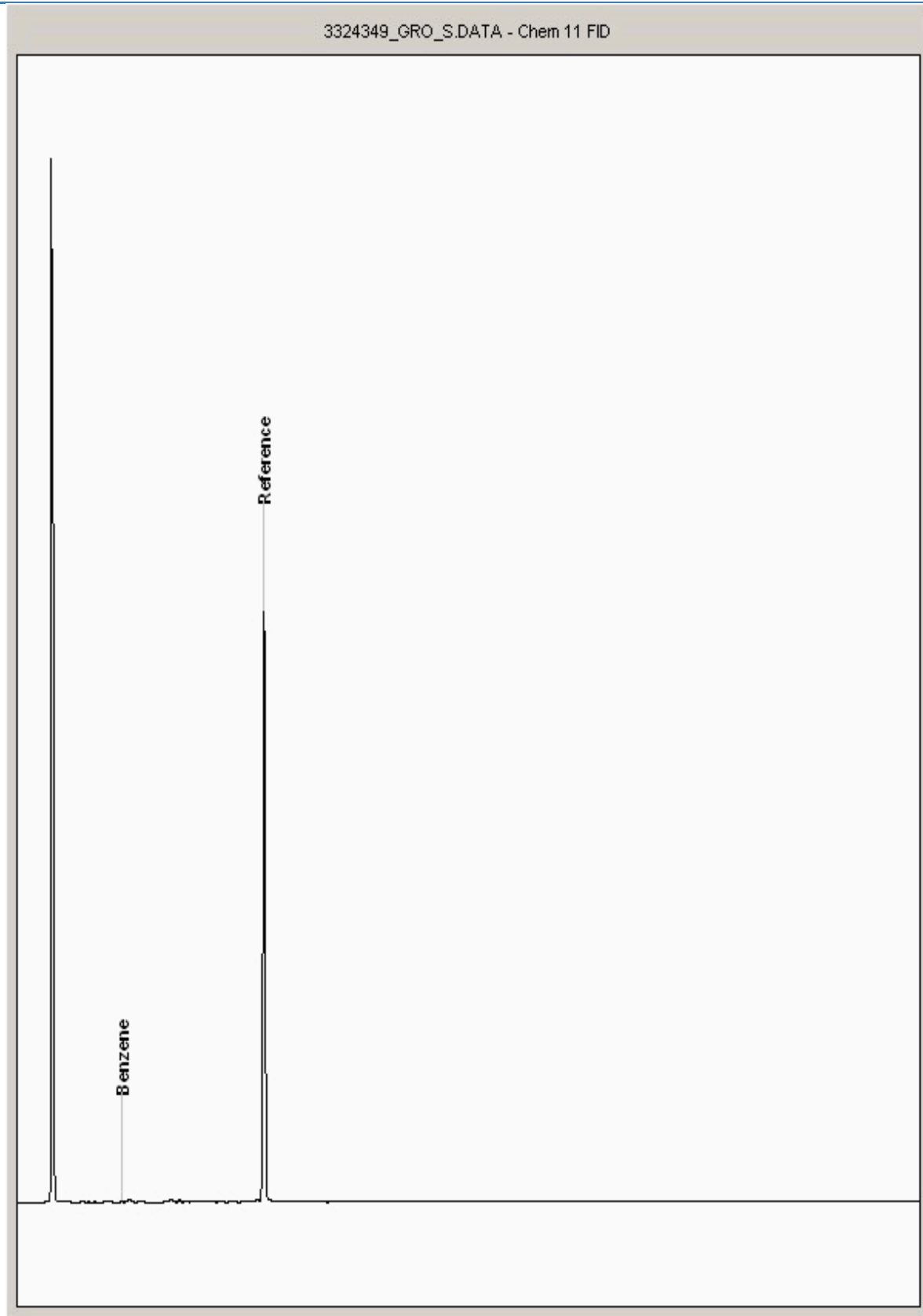
Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3324349
Sample ID : DVP50

Depth : 0.50





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

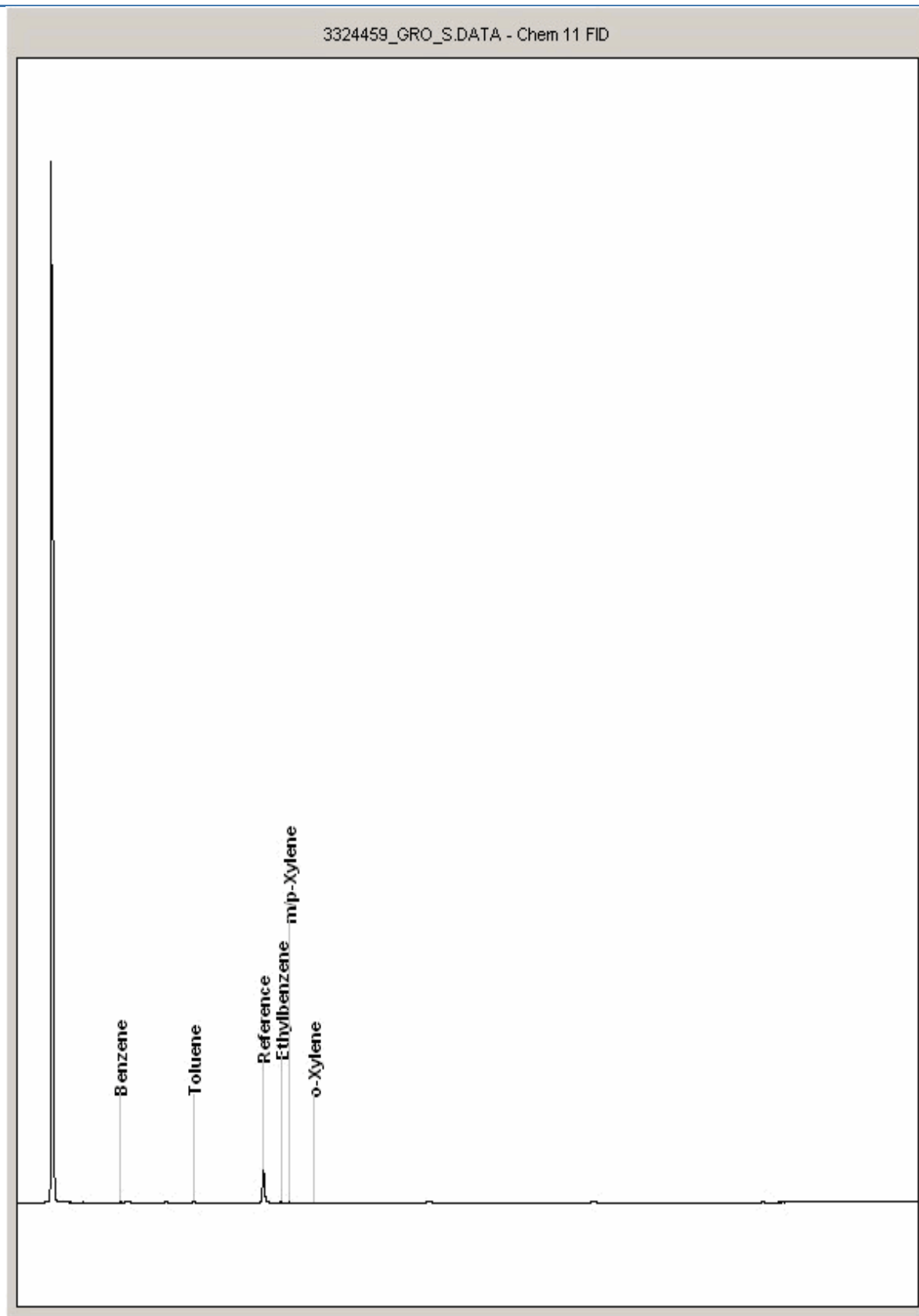
Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3324459
Sample ID : DVP50

Depth : 2.50





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

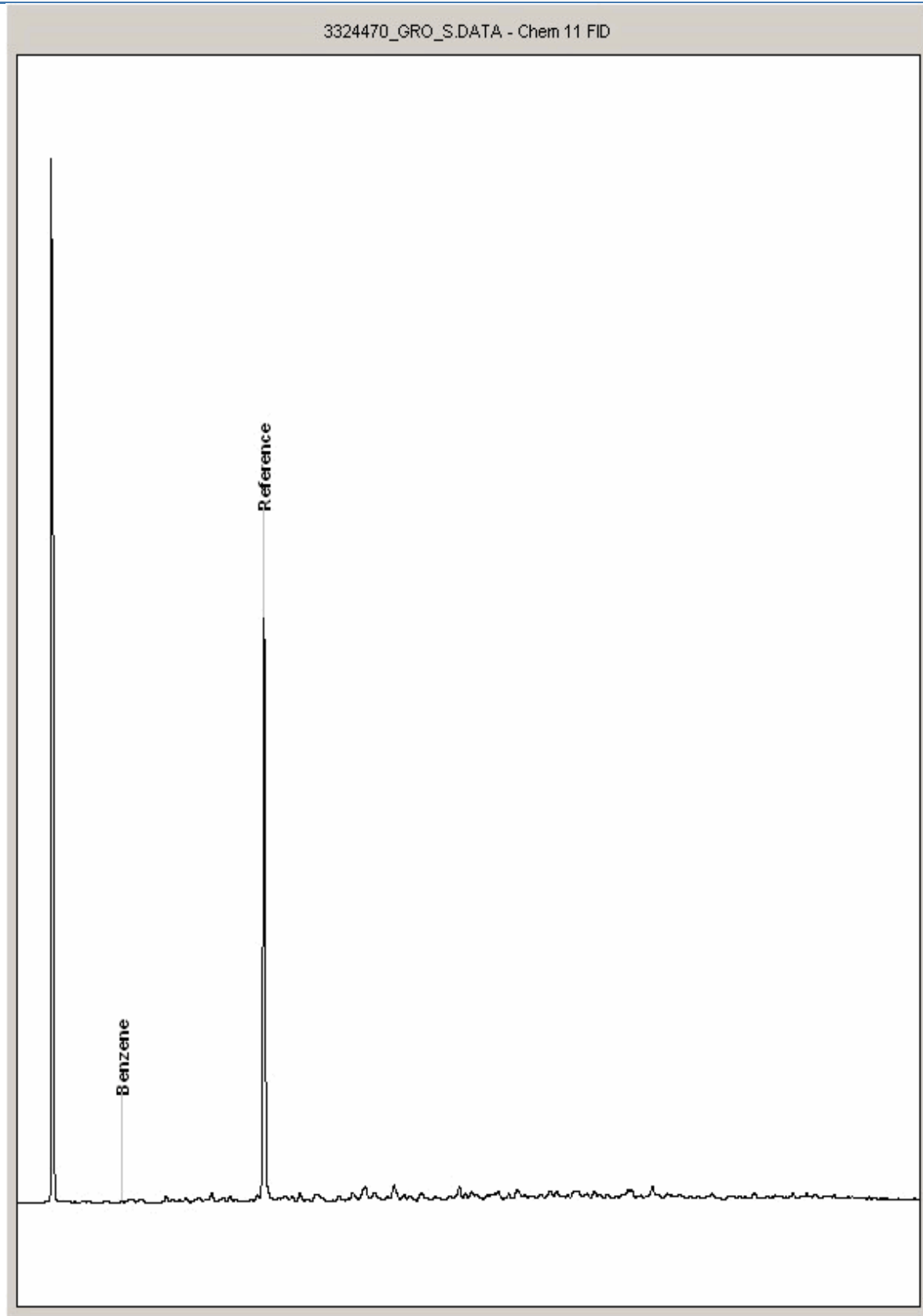
Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3324470
Sample ID : DVP51

Depth : 3.50





CERTIFICATE OF ANALYSIS

SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

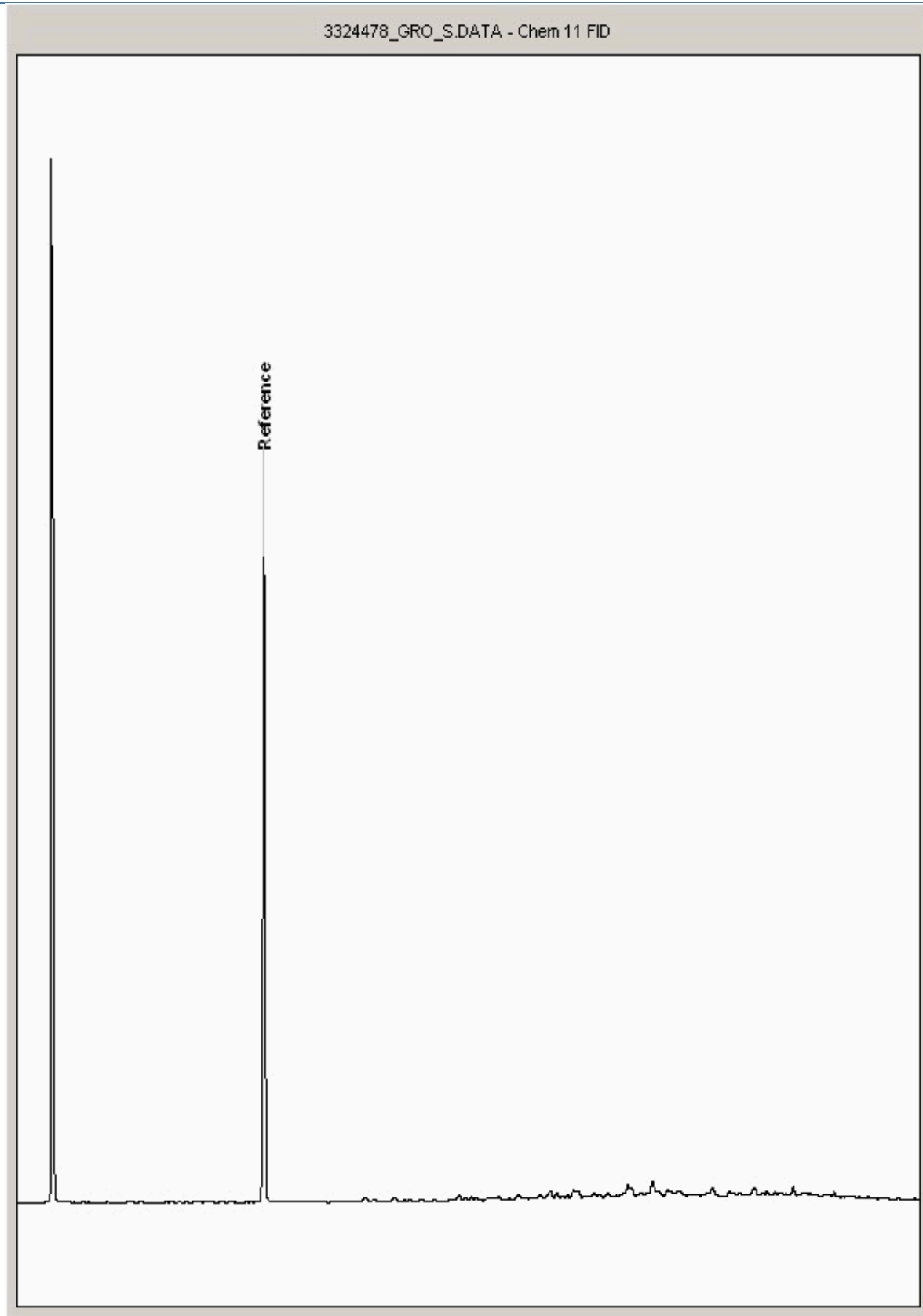
Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3324478
Sample ID : DVP51

Depth : 1.50





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

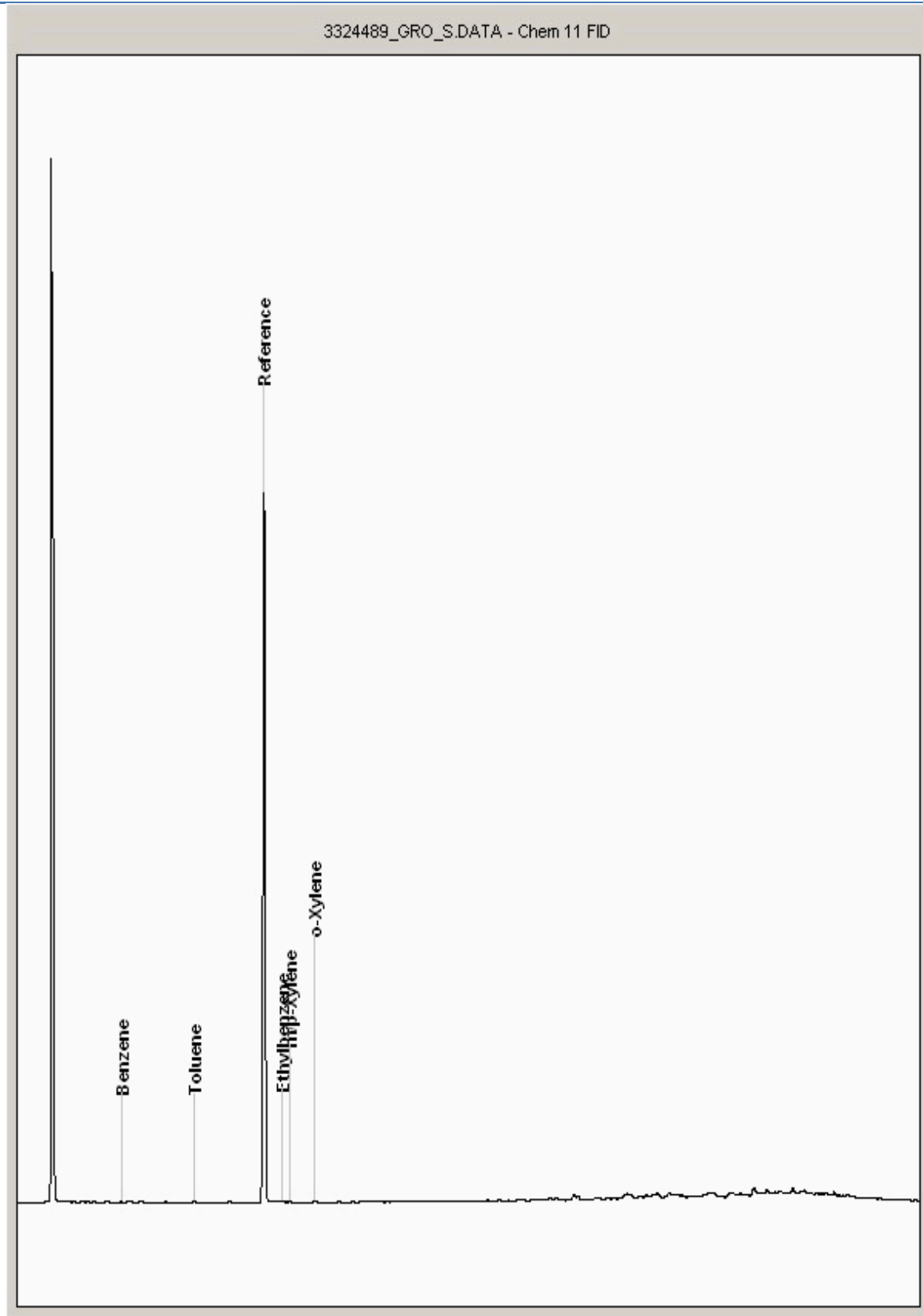
Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3324489
Sample ID : DVP51

Depth : 0.50





SDG: 110419-3
Job: H_ATKINS_LDC-96
Client Reference: DiMe Trial Pit Validation

Location: Coed Darcy Urban Village
Customer: Atkins Global Ltd
Attention: Alex Mann

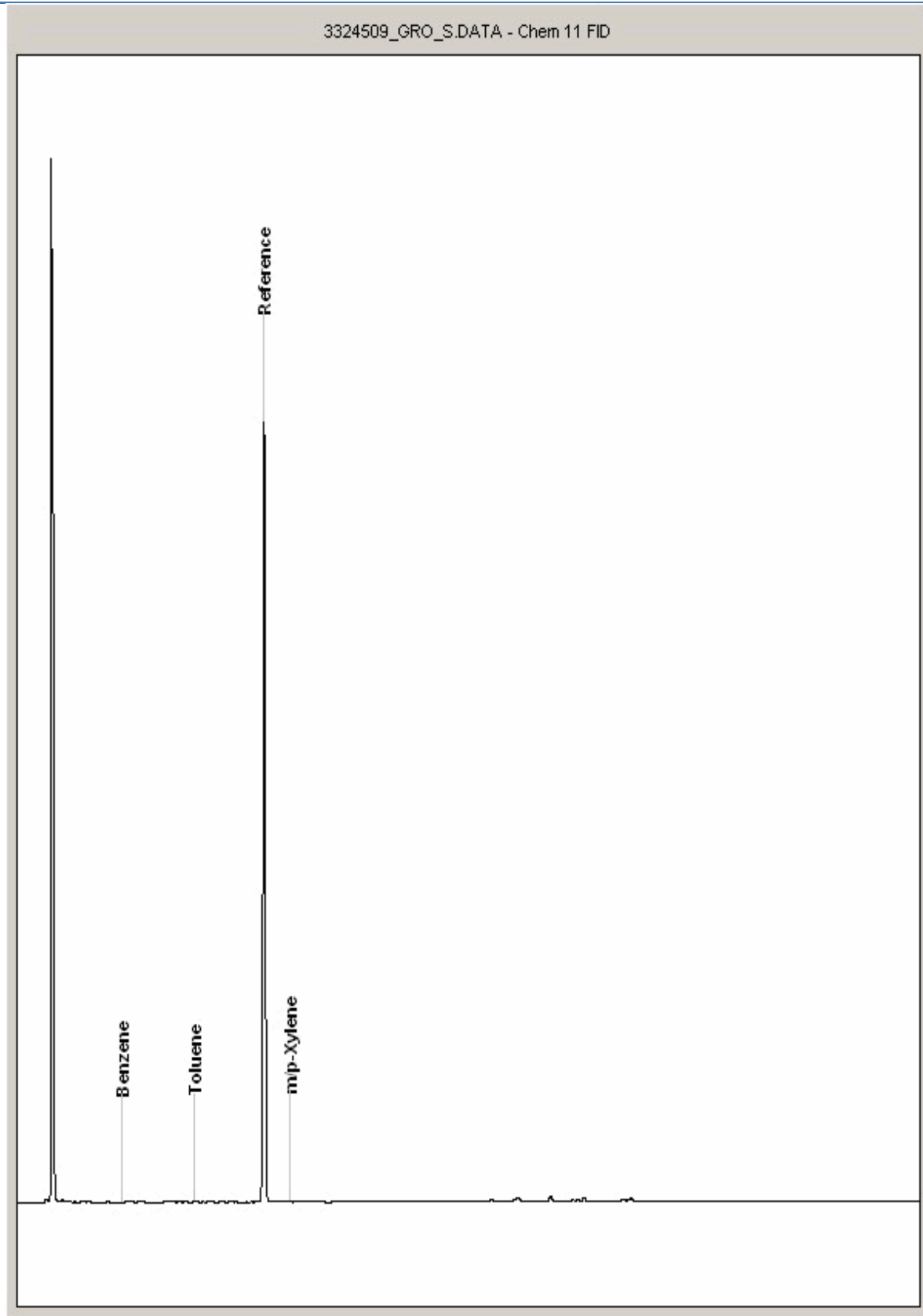
Order Number: CD0115
Report Number: 127190
Superseded Report:

Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 3324509
Sample ID : DVP45

Depth : 0.50





SDG:	110419-3	Location:	Coed Darcy Urban Village	Order Number:	CD0115
Job:	H_ATKINS_LDC-96	Customer:	Atkins Global Ltd	Report Number:	127190
Client Reference:	DiMe Trial Pit Validation	Attention:	Alex Mann	Superseded Report:	

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA Leach tests, flash point, ammonium as NH4 by the BRE method, VOC TICS, SVOC TICS, TOF-MS SCAN/SEARCH and TOF-MS TICS.
2. Samples will be run in duplicate upon request, but an additional charge may be incurred.
3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for both soil jars, tubs and volatile jars. All waters and vials will be discarded 10 days after the analysis is completed (e-mailed). All material removed during an asbestos containing material screen and analysed for the presence of asbestos will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.
4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.
5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.
6. When requested, the individual sub sample scheduled will be screened in house for the presence of large asbestos containing material fragments/pieces. If no asbestos containing material is found this will be reported as 'no asbestos containing material detected'. If asbestos containing material is detected it will be removed and analysed by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If asbestos containing material is present no further analysis will be undertaken. At no point is the fibre content of the soil sample determined.
7. If no separate volatile sample is supplied by the client, the integrity of the data may be compromised if the laboratory is required to create a sub-sample from the bulk sample -similarly, if a headspace or sediment is present in the volatile sample. This will be flagged up as an invalid VOC on the test schedule or recorded on the log sheet.
8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.
9. NDP -No determination possible due to insufficient/unsuitable sample.
10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.
11. A table containing the date of analysis for each parameter is not routinely included with the report, but is available upon request.
12. Results relate only to the items tested
13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.
14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.
15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).
16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 14).
17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.
18. Our MCERTS accreditation for PAHs by GCMS applies to all product types apart from Kerosene, where naphthalene only is not accredited.
19. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.
20. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.
21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.
22. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.
23. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials -whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.
24. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C4 -C10 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

SOLID MATRICES EXTRACTION SUMMARY				
ANALYSIS	D/C OR VET	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
SOLVENT EXTRACTABLE MATTER	D&C	DOM	SOX THERM	GRAVIMETRIC
CYCLOHEXANE EXT. MATTER	D&C	CYCLOHEXANE	SOX THERM	GRAVIMETRIC
THIN LAYER CHROMATOGRAPHY	D&C	DOM	SOX THERM	ATROSCAN
ELEMENTAL SULPHUR	D&C	DOM	SOX THERM	HPLC
PHENOLSBY GCMS	VET	DOM	SOX THERM	GCMS
HERBICIDES	D&C	HEXANEACETONE	SOX THERM	GCMS
PESTICIDES	D&C	HEXANEACETONE	SOX THERM	GCMS
EPH (DRO)	D&C	HEXANEACETONE	END OVEREND	GC FID
EPH (MINOIL)	D&C	HEXANEACETONE	END OVEREND	GC FID
EPH (CLEANED UP)	D&C	HEXANEACETONE	END OVEREND	GC FID
EPH OAG BY GC	D&C	HEXANEACETONE	END OVEREND	GC FID
PCB TOT / PCB CON	D&C	HEXANEACETONE	END OVEREND	GCMS
POLYAROMATIC HYDROCARBONS (MS)	VET	HEXANEACETONE	MICROWAVE TM28.	GCMS
C8-C40(C8-C40) EZ FLASH	VET	HEXANEACETONE	SHAKER	GCEZ
POLYAROMATIC HYDROCARBONS RAPID GC	VET	HEXANEACETONE	SHAKER	GCEZ
SEM VOLATILE/ORGANIC COMPOUNDS	VET	DOMACETONE	SONICATE	GCMS

LIQUID MATRICES EXTRACTION SUMMARY			
ANALYSIS	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
PAHMS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCMS
EPH	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
EPH OAG	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
MINERAL OIL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GC FID
PCB 7 CONGENERS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCMS
PCB TOTAL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCMS
SVOC	DOM	LIQUID/LIQUID SHAKE	GCMS
FREE SULPHUR	DOM	SOLID PHASE EXTRACTION	HPLC
PEST COP/OPP	DOM	LIQUID/LIQUID SHAKE	GCMS
TRAZINE HERBS	DOM	LIQUID/LIQUID SHAKE	GCMS
PHENOLSMS	DOM	SOLID PHASE EXTRACTION	GCMS
TPH by INFRARED (R)	TCE	LIQUID/LIQUID SHAKE	HPLC
MINERAL OIL by IR	TCE	LIQUID/LIQUID SHAKE	HPLC
GLYCOLS	NONE	DIRECT INJECTION	GCMS

Identification of Asbestos in Bulk Materials

The results for asbestos identification for soil samples are obtained from possible Asbestos Containing Material, removed during the 'Screening of soils for Asbestos Containing Materials', which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-