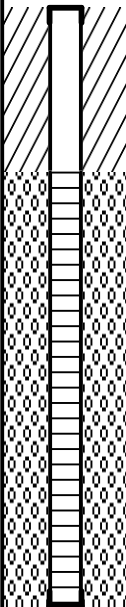












BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS 153		PAGE 1 OF 1				
	NUMBER	TYPE					DRILLING DATES: 19/9/01		DRILLING METHODS : Window Sample				
							DRILLER : GRL		BOREHOLE DIAMETER : 50mm				
							LOGGED BY : ML		SCREEN TYPE & DIAM: uPVC 35mm				
							CHECKED BY : JM		SCREEN SLOT SIZE: 2mm				
DESCRIPTION		COMMENTS											
	0.1-0.4m-TPH,SVOC		*2.5		0.0	MADE GROUND: Tarmac.	Dry, occasional black staining & slight olfactory odour.	0.0					
					0.5	MADE GROUND: Loose light grey medium gravel with frequent fine gravel, occasional coarse and medium sand and rare coarse gravel and clay.		0.5					
					1.0	Hard dark brown CLAY with some fine gravel and black fine gravel of coal, occasional fine sand, light brown and orange mottling and brown/orange mudstone flints and rare coarse sand and rounded medium gravel.		1.0					
					1.5	Hard brown/orange CLAY with some silt and fine sand and occasional brown/orange medium and fine gravel.		1.5					
					2.0	Hard dark brown CLAY with some black fine gravel of coal, occasional silt, fine gravel,brown/pink medium gravel of sandstone and light brown/yellow mottling and rare coarse brown/pink sand.		2.0					
					2.5	Very soft dark brown peaty CLAY with frequent light brown rootlets and rare light brown/orange mottling.		2.5					
					3.0	Hard cemented friable dark grey MUDSTONE.		3.0					
					3.5	Borehole completed at 1.85mbgl in hard mudstone.		3.5					
					4.0			4.0					
					LOCATION / NOTES: NVO = No visual or olfactory evidence of contamination			LEGEND  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table		BOREHOLE LOG Job Title: Phase II Soil & Groundwater Investigation Location: Whitehaven,Cumbria Client: Rhodia  <table><tr><td>App'd: JM</td><td>Date: OCT 2001</td></tr><tr><td>Drawn : AF</td><td>Ref: AF/ML/420</td></tr><tr><td>Scale: as shown</td><td>Job No: 44557-021-420</td></tr><tr><td>Drg. Size: A4</td><td>BOREHOLE LOG</td></tr></table>		App'd: JM	Date: OCT 2001
App'd: JM	Date: OCT 2001												
Drawn : AF	Ref: AF/ML/420												
Scale: as shown	Job No: 44557-021-420												
Drg. Size: A4	BOREHOLE LOG												


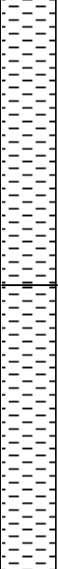
BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS 163		PAGE 1 OF 1	
	NUMBER	TYPE					DRILLING DATES: 21/9/01		DRILLING METHODS : Window Sample	
							DRILLER : GRL		BOREHOLE DIAMETER : 50mm	
							LOGGED BY : ML		SCREEN TYPE & DIAM: uPVC 35mm	
							CHECKED BY : JM		SCREEN SLOT SIZE: 2mm	
DESCRIPTION		COMMENTS								
	0.05-0.5m-Asbestos		0.0	MADE GROUND: Tarmac hardstanding.	Damp,NVO	0.0				
			0.5	MADE GROUND: Loose black and dark brown granular fill with abundant fine gravel of mudstone and sandstone, numerous black and dark brown coarse sand, some light brown fine sand, occasional light brown clay and rare light brown medium gravel of sandstone.		0.5				
			1.0	MADE GROUND: Soft dark brown reworked clay with much medium gravel of limestone and mudstone, numerous light orange fine sand mottling and some fine gravel.	Damp,NVO Dry,NVO	1.0				
			1.5	Very stiff light brown/orange CLAY with frequent black fine gravel of coal, light orange fine sand and fine gravel and occasional black mottling, yellow silt mottling, light brown and pink coarse sand and medium gravel.	Dry,NVO	1.5				
			2.0	becoming with numerous black peaty mottling.	Dry,NVO	2.0				
			2.5	Soft/firm light brown silty CLAY with numerous light brown fine sand, frequent black mottling and occasional black fine gravel of coal and fine gravel of sandstone and mudstone.	Damp,NVO	2.5				
			3.0	becoming with abundant black peaty mottling.		3.0				
			3.5	Very soft light brown peaty CLAY with abundant black mottling, numerous fine sand and occasional black fine gravel of coal and coarse sand.	Wet/damp, NVO	3.5				
			4.0	Hard cemented friable (flinting) yellow/orange (rusty) fine grained SANDSTONE.	Dry,NVO	4.0				
			Borehole completed at 2.3mbgl due to refusal in hard sandstone.							








LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination		Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table		Job Title: Phase II Soil & Groundwater Investigation Location: Whitehaven,Cumbria Client: Rhodia	
				App'd: JM Date: OCT 2001 Drawn : AF Ref: AF/ML/420 Scale: as shown Job No: 44557-021-420 Drg. Size: A4 BOREHOLE LOG	

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP720E		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 6th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : LBU		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
DESCRIPTION		COMMENTS								
0.7m Leachate: (Surfactants, Metals, Total Cyanide, Orthophosph hate, Sulphate, pH, TPH- CWG) Soil: (VOC, PCB, Ammonium, Nitrate)	X	X	X	0.0	MADE GROUND. Reinforced concrete hardstanding.	Dry, NVO	0.0			
								MADE GROUND. Grey coarse angular gravel of hardcore. 12inch drain at approximately 0.3m (silted up)	0.5	
								Soft to firm red-brown CLAY with frequent fine to coarse subangular to subrounded gravels.		
								Yellow-brown fine grained LIMESTONE with occasional dissolution voids.		2.0
Terminated at 1.9m - bedrock	2.5									
		3.0								
			3.5							
	4.0									
		4.5								
			5.0							

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS721E		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 6th March 2007		DRILLING METHODS : Windown Sampling	
							DRILLER : Global Probing & Sampling		BOREHOLE DIAMETER : 200mm	
							LOGGED BY : PM		SCREEN TYPE & DIAM: 50mm (Geosoc)	
							CHECKED BY : ARD		SCREEN SLOT SIZE: 1mm	
DESCRIPTION		COMMENTS								
	0.3m	Leachate: (additional parameters*)	* <0.1 *20.8		0.0	MADE GROUND. Very soft light borwn clay (topsoil) with frequent organic rootlets.	Dry, NVO	0.0		
		Soil: (SVOC, PCB, Ammonium, Nitrate, additional parameters*)	*4.8		0.5	MADE GROUND. Red clayey fine subangular gravel of red brick with frequent fine rootlets.		0.5		
					1.0	MADE GROUND. Firm dark grey-brown gravelly clay. Gravel is medium angular to subangular limestone and calcite.	Dry, NVO	1.0		
			*11.3		1.5	Stiff orange mottled brown-dark brown slightly gravelly CLAY. Gravel is fine to medium, subangular to subrounded vitrinite, sandstone, limestone.		1.5		
	1.5m	Leachate: (TPH-CWG) Soil: (TPH-CWG, VOC)	*19.5		2.0	Soft brown mottled black CLAY often speckled black with organic matter.	Wet, NVO	2.0		
					2.5			2.5		
	2.9m	Leachate: (SVOC) Soil: (SVOC)	* <0.1		3.0	Weathered LIMESTONE recovered as brown very clayey medium to coarse subangular gravel of fine grained white limestone. Cobble of limestone at 3.4m.		3.0		
	3.3m	Leachate: (Surfactants, Orthophosphate, pH)	* <0.1		3.5	Refusal at 3.5m - assumed bedrock		3.5		
				4.0			4.0			
				4.5			4.5			
				5.0			5.0			

LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination		Disturbed Sample		Job Title: Plots D,E,F,G, A & C Site Investigations	
Ground Level 87.431 mAOD		Undisturbed Sample		Location: Whitehaven	
Trial pit is backfilled with spoil		Headspace Analysis		Client: Rhodia	
**Additional parameters at 0.3m: Metals, Total Cyanide, Orthophosphate, Sulphate, pH		Down Borehole Analysis			
		Groundwater Table		App'd: _____	
		Perched Water Table		Date: 09/03/07	
				Drawn : KL	
				Ref: Plot E	
				Scale: as shown	
				Job No: 44320215	
				Drg. Size: A4	
				BOREHOLE LOG	


BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP722E		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 5th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : LBU		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
DESCRIPTION		COMMENTS								
0.5m Leachate: (Surfactants, Orthophosp hate, Sulphate, pH, TPH- CWG, SVOC) Soil: (TPH- CWG, VOC, SVOC, PCB)	* * * *	* * * *	* * * *	0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0	  	MADE GROUND. Grass and pale brown slightly sandy topsoil with many rootlets.		Dry, NVO	0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0	
						Firm orange-brown slightly sandy CLAY with occasional fine to coarse subangular gravels including sandstone fragments.				
						Soft dark brown-black sandy CLAY (possible staining)				
						Terminated at 2.4m				
1.5m Leachate: (TPH-CWG, additional parameters* *) Soil: (VOC, SVOC, Ammonium, Nitrate, additional parameters* *)										








LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination		 Disturbed Sample		Job Title: Plots D,E,F,G, A & C Site Investigations	
Ground Level 87.237 mAOD		 Undisturbed Sample		Location: Whitehaven	
Trial pit is backfilled with spoil		 Headspace Analysis		Client: Rhodia	
**Additonal parameters at 1.5m: Metals, Total Cyanide, Orthophosphate, Sulphate, pH		 Down Borehole Analysis			
		 Groundwater Table		App'd: _____ Date: 09/03/07	
		 Perched Water Table		Drawn : KL Ref: Plot E	
				Scale: as shown Job No: 44320215	
				Drg. Size: A4 BOREHOLE LOG	







BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP723E		PAGE 1 of 1																													
	NUMBER	TYPE					DRILLING DATES: 5th March 2007		DRILLING METHODS : Trial Pitting																													
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a																													
							LOGGED BY : LBU		SCREEN TYPE & DIAM: n/a																													
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a																													
				DESCRIPTION		COMMENTS																																
1.0m Leachate: (SVOC) Soil: (VOC, SVOC)	X	*<0.1	0.0	MADE GROUND. Grass with dark brown slightly sandy topsoil and many rootlets.	Dry, NVO	0.0																																
							0.5	Red-light brown slightly sandy CLAY with occasional fine to coarse subangular gravel.	Dry, NVO	0.5																												
											1.0			1.0																								
															1.5			1.5																				
																			2.0			2.0																
																							2.5			2.5												
																											3.0			3.0								
																															3.5			3.5				
																																			4.0			4.0
5.0			5.0																																			
				3.5m Leachate: (Surfactants, TPH-CWG) Soil: Total Cyanide, Orthophosph hate)	X	*<0.1	3.5	Soft dark brown-black sandy CLAY.	Moist	3.5																												
											4.0	Pale grey-pink fine grained LIMESTONE		4.0																								
															4.5	Trial pit terminated at 4.0m in bedrock		4.5																				
																			5.0			5.0																








BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP724E		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 6th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : LBU		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
DESCRIPTION		COMMENTS								
0.5m Leachate: (Surfactants, Orthophosp hate, , TPH- CWG, SVOC) Soil: (TPH- CWG, VOC, SVOC, Ammonium, Nitrate)	✕	*0-40 (fluctuating)	* <0.1	0.0	MADE GROUND. Grass with dark brown slightly sandy slightly clayey topsoil with many rootlets.	PID is unreliable as reading fluctuates even in air Dry, NVO	0.0			
				0.5	Soft to firm light brown slightly sandy CLAY with frequent fine to coarse subangular gravel of fine grained orange-brown sandstone.		0.5			
				1.0			1.0			
				1.5			1.5			
				2.0			2.0			
2.5m Leachate: (Surfactants, Metals, Total Cyanide, Orthophosp hate, Sulphate, pH, TPH- CWG, SVOC) Soil: (VOC, SVOC)	✕	*0-120 (fluctuating)	*0-100 (fluctuating)	2.5	Soft dark brown-black CLAY	Moist	2.5			
				3.0	Firm to stiff light brown gravelly CLAY. Gravel is fine to coarse subangular.		3.0			
				3.5	Pale grey-pink, fine grained LIMESTONE with some small voids.		3.5			
				4.0	Trial pit terminated at 3.5m in bedrock.		4.0			
				4.5			4.5			
								5.0		

LOCATION / NOTES: NVO = No visual or olfactory evidence of contamination Ground Level 88.740mAOD Trial pit is backfilled with spoil		LEGEND <div><div>✕</div>Disturbed Sample</div> <div><div>■</div>Undisturbed Sample</div> <div><div>*</div>Headspace Analysis</div> <div><div>⬇</div>Down Borehole Analysis</div> <div><div>⬇</div>Groundwater Table</div> <div><div>≡</div>Perched Water Table</div>		BOREHOLE LOG <div>Job Title: Plots D,E,F,G, A & C Site Investigations</div> <div>Location: Whitehaven</div> <div>Client: Rhodia</div> <div><div>URS</div><div><div>App'd:</div><div>Drawn : KL</div><div>Scale: as shown</div><div>Drg. Size: A4</div></div><div><div>Date: 09/03/07</div><div>Ref: Plot E</div><div>Job No: 44320215</div><div>BOREHOLE LOG</div></div></div>			
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BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP725E		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 6th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : LBU		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
DESCRIPTION		COMMENTS								
0.7m Leachate: (Surfactants, TPH-CWG, additional parameters*) Soil: (TPH (ali/aro split), additional parameters*) 1.3m Leachate: (Surfactants, TPH-CWG, SVOC) Soil: (TPH (ali/aro split), VOC, SVOC)					0.0		MADE GROUND. Grass in dark brown slightly silty sandy topsoil and many rootlets.	Dry, NVO	0.0	
					0.5				0.5	
					1.0				1.0	
					1.5				1.5	
					2.0				2.0	
					2.5				2.5	
					3.0				3.0	
					3.5				3.5	
					4.0				4.0	
					4.5				4.5	
				5.0		5.0				
							Pale grey-pink fine grained LIMESTONE			
							Trial pit terminated at 3.8m in bedrock			

LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination		 Disturbed Sample		Job Title: Plots D,E,F,G, A & C Site Investigations	
Ground Level 89.789 mAOD		 Undisturbed Sample		Location: Whitehaven	
Trial pit is backfilled with spoil		 Headspace Analysis		Client: Rhodia	
**Additional parameters at 0.7m: Metals, Total Cyanide, Orthophosphate, Sulphate, pH		 Down Borehole Analysis			
		 Groundwater Table		App'd: _____ Date: 09/03/07	
		 Perched Water Table		Drawn : KL Ref: Plot E	
				Scale: as shown Job No: 44320215	
				Drg. Size: A4 BOREHOLE LOG	

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP726E		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 6th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : LBU		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
0.5m Leachate: (TPH-CWG) Soil: (TPH (ali/aro split), VOC, SVOC)	X	* * * * * * * * * * *	* * * * * * * * * * *	0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0	     	DESCRIPTION		COMMENTS		
						MADE GROUND. Reinforced concrete hardstanding.		Dry, NVO Moist	0.0	
						Firm to stiff orange-brown slightly sandy CLAY with some cobbles and occasional fine to coarse subangular to subrounded gravel.			0.5	
						Pale grey-pink fine grained LIMESTONE.			1.0	
						Trial pit terminated at 1.3m in bedrock			1.5	
									2.0	
									2.5	
									3.0	
									3.5	
									4.0	
									4.5	
			5.0							

LOCATION / NOTES: NVO = No visual or olfactory evidence of contamination Ground Level 88.053 mAOD Trial pit is backfilled with spoil **Additional parameters: Metals, Total Cyanide, Orthophosphate, Sulphate, pH		LEGEND  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	BOREHOLE LOG Job Title: Plots D,E,F,G, A & C Site Investigations Location: Whitehaven Client: Rhodia  <table><tr><td>App'd:</td><td>Date: 09/03/07</td></tr><tr><td>Drawn : KL</td><td>Ref: Plot E</td></tr><tr><td>Scale: as shown</td><td>Job No: 44320215</td></tr><tr><td>Drg. Size: A4</td><td>BOREHOLE LOG</td></tr></table>	App'd:	Date: 09/03/07	Drawn : KL	Ref: Plot E	Scale: as shown	Job No: 44320215	Drg. Size: A4	BOREHOLE LOG
App'd:	Date: 09/03/07										
Drawn : KL	Ref: Plot E										
Scale: as shown	Job No: 44320215										
Drg. Size: A4	BOREHOLE LOG										

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP727E		PAGE 1 of 1		
	NUMBER	TYPE					DRILLING DATES: 5th March 2007	DRILLING METHODS : Trial Pitting			
							DRILLER : Joy Plant	BOREHOLE DIAMETER : n/a			
							LOGGED BY : LBU	SCREEN TYPE & DIAM: n/a			
							CHECKED BY : ARD	SCREEN SLOT SIZE: n/a			
							DESCRIPTION		COMMENTS		
0.4m Leachate: (pH, TPH- CWG, SVOC) Soil: (TPH (ali/aro split), SVOC, Ammonium, Nitrate)		✕	* 0.1		0.0	MADE GROUND. Reinforced concrete hardstanding.				0.0	
					0.5	MADE GROUND. Concrete fragments.				0.5	
		✕				MADE GROUND. Dark brown-black fine to coarse gravel with subrounded to rounded cobbles.					
						MADE GROUND. Concrete hardstanding.					
						MADE GROUND. Concrete and bricks.					
		✕			1.0	Firm light brown slightly sandy CLAY with occasional fine subangular gravels.				1.0	
0.5m Leachate: (Surfactants, TPH-CWG) Soil: (TPH- CWG, VOC)			* 0.1		1.5					1.5	
1.0m Leachate: (pH) Soil: (pH)			* 0.1		2.0					2.0	
			* 0.1		2.5	Soft dark brown CLAY.				2.5	
3.0m Leachate: (Surfactants, additional parameters*) Soil: (additional parameters*)		✕	* 0.1		3.0					3.0	
					3.5					3.5	
					4.0	Trial pit terminated at 4.2m				4.0	
					4.5					4.5	
					5.0					5.0	
LOCATION / NOTES: NVO = No visual or olfactory evidence of contamination Ground Level 88.981 mAOD Trial pit is backfilled with spoil **Additional parameters at 3.0m: Metals, Total Cyanide, Orthophosphate, Sulphate, SVOC						LEGEND ✕ Disturbed Sample ■ Undisturbed Sample * Headspace Analysis ⬇ Down Borehole Analysis ⬇ Groundwater Table ⬇ Perched Water Table		BOREHOLE LOG Job Title: Plots D,E,F,G, A & C Site Investigations Location: Whitehaven Client: Rhodia URS App'd: Date: 09/03/07 Drawn : KL Ref: Plot E Scale: as shown Job No: 44320215 Drg. Size: A4 BOREHOLE LOG			

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP728E		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 5th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : LBU		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
				DESCRIPTION		COMMENTS				
1.0m Leachate: (Surfactants, TPH-CWG, additional parameters*) Soil: (TPH (ali/aro split), Ammonium, Nitrate, additional parameters*) 2.0m Soil: TOC/PSD 2.5m Leachate: (Surfactants, Metals, Total Cyanide, Orthophosp hate, Sulphate, TPH-CWG, SVOC) Soil: (VOC, SVOC)	*<0.1			0.0	MADE GROUND. Tarmac hardstanding MADE GROUND. Pale red brick hardcore.	Dry, NVO	0.0			
	*<0.1			0.5	Firm brown slightly sandy CLAY with occasional fine subangular gravel.	Dry, NVO	0.5			
	*<0.1			1.0			1.0			
	*<0.1			2.0	Soft dark brown-black CLAY.	Moist	2.0			
				2.5	Fine grained, pale grey-pink LIMESTONE.		2.5			
			3.0	Trial pit terminated at 2.8 in bedrock.		3.0				
			3.5			3.5				
			4.0			4.0				
			4.5			4.5				
			5.0			5.0				

LOCATION / NOTES:

NVO = No visual or olfactory evidence of contamination

Ground Level 89.277mAOD

Trial pit is backfilled with spoil

**Additional parameters at 1.0m: Metals, Total Cyanide, Orthophosphate, Sulphate, pH, SVOC

LEGEND

Disturbed Sample

Undisturbed Sample

*

Headspace Analysis

Down Borehole Analysis

Groundwater Table

Perched Water Table

BOREHOLE LOG

Job Title: Plots D,E,F,G, A & C Site Investigations

Location: Whitehaven

Client: Rhodia

URS

App'd:

Drawn : KL

Scale: as shown

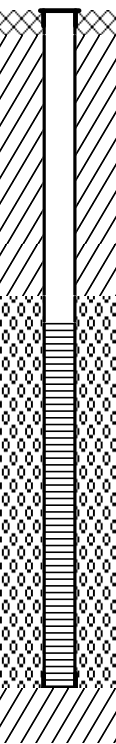



Drg. Size: A4








Date: 09/03/07









Ref: Plot E

Job No: 44320215

BOREHOLE LOG



BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS729E		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 6th March 2007		DRILLING METHODS : Window Sampling	
							DRILLER : Global		BOREHOLE DIAMETER : 200mm	
							LOGGED BY : LB		SCREEN TYPE & DIAM: 50mm (Geosock)	
							CHECKED BY : ARD		SCREEN SLOT SIZE: 1mm	
DESCRIPTION		COMMENTS								
	0.6m	Leachate: (additional parameters*)	* <0.1		0.0	MADE GROUND. Dark brown sandy gravel. Gravel is fine to coarse and angular.	Wet	0.0		
	Soil: (ammonium, Nitrate, additional parameters*)	0.5			Brown sandy SILT with subrounded gravel.		0.5			
	1.2m	Leachate: (pH, TPH-CWG, SVOC) Soil: (VOC, SVOC, PCB)	* <0.1		1.0	Soft to firm dark brown CLAY. Soft black organic CLAY. Soft black mottled brown organic CLAY.	Dry	1.0		
					1.5	Soft brown gravelly CLAY with brown and orange mottles. Gravel is angular to sub angular fine to coarse of limestone. Occassional limestone cobbles.	Damp	1.5		
					2.0	Soft orange-brown gravelly CLAY. Gravel is angular to subangular, fine to coarse of limestone. Occassional limestone cobbles.	Dry	2.0		
	2.5m	Leachate: (Surfactants, Orthophosphate, Sulphate, pH, TPH-CWG)	* <0.1		2.5	Firm light brown mottled beige, purple and yellow slightly sandy very gravelly CLAY. Gravel is rounded to subrounded fine to medium gravel of mixed lithology including limestone, sandstone and gritstone.	Dry	2.5		
					3.0	Beige LIMESTONE with small voids in a brown clay matrix.		3.0		
					3.0	Refusal at 2.79m in bedrock		3.0		
					3.5			3.5		
					4.0			4.0		
					4.5			4.5		
					5.0			5.0		

LOCATION / NOTES:		LEGEND		BOREHOLE LOG			
NVO = No visual or olfactory evidence of contamination		 Disturbed Sample		Job Title: Plots D,E,F,G, A & C Site Investigations			
Ground Level 89.331 mAOD		 Undisturbed Sample		Location: Whitehaven			
Trial pit is backfilled with spoil		 Headspace Analysis		Client: Rhodia			
**Additional parameters at 0.6m: metals, Total Cyanide, Orthophosphate, Sulphate, pH		 Down Borehole Analysis				App'd:	Date: 06/03/07
		 Groundwater Table				Drawn : LB	Ref: Plot E
		 Perched Water Table				Scale: as shown	Job No: 44320215
						Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP730E		PAGE 1 of 1								
	NUMBER	TYPE					DRILLING DATES: 6th March 2007	DRILLING METHODS : Trial Pitting									
							DRILLER : Joy Plant	BOREHOLE DIAMETER : n/a									
							LOGGED BY : LBU	SCREEN TYPE & DIAM: n/a									
							CHECKED BY : ARD	SCREEN SLOT SIZE: n/a									
1.5m Leachate: (Surfactans, Metals, Total Cyanide, Orthophosph hate, Sulphate, pH, TPH- CWG, SVOC) Soil: (TPH- CWG, VOC, SVOC, Ammonium, Nitrate)	X	* * * * * * * * * *	* * * * * * * * * *	0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0		DESCRIPTION		COMMENTS	0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0								
						MADE GROUND. Tarmac hardstanding.											
						MADE GROUND. Angular cobbles and fine angular gravel.											
						Soft to firm dark brown slightly sandy CLAY with occasional bands of soft black organic clay and fine to medium subangular to subrounded gravel with occasional cobbles of yellow-brown, fine grained sandstone.											
						Pale grey-pink fine grained LIMESTONE with occasional dissolution voids.											
						Trial pit terminated at 1.9m in bedrock											
<div>LOCATION / NOTES: NVO = No visual or olfactory evidence of contamination Ground Level 89.457 mAOD Trial pit is backfilled with spoil</div> <div>LEGEND  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table</div> <div>BOREHOLE LOG Job Title: Plots D,E,F,G, A & C Site Investigations Location: Whitehaven Client: Rhodia <table><tr><td>App'd:</td><td>Date: 09/03/07</td></tr><tr><td>Drawn : KL</td><td>Ref: Plot E</td></tr><tr><td>Scale: as shown</td><td>Job No: 44320215</td></tr><tr><td>Drg. Size: A4</td><td>BOREHOLE LOG</td></tr></table></div>										App'd:	Date: 09/03/07	Drawn : KL	Ref: Plot E	Scale: as shown	Job No: 44320215	Drg. Size: A4	BOREHOLE LOG
App'd:	Date: 09/03/07																
Drawn : KL	Ref: Plot E																
Scale: as shown	Job No: 44320215																
Drg. Size: A4	BOREHOLE LOG																

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP731E		PAGE 1 of 1						
	NUMBER	TYPE					DRILLING DATES: 6th March 2007		DRILLING METHODS : Trial Pitting						
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a						
							LOGGED BY : KL		SCREEN TYPE & DIAM: n/a						
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a						
DESCRIPTION		COMMENTS													
0.6m Leachate: (Surfactants, Sulphate, pH, TPH- CWG, SVOC) Soil: (VOC, SVCO)	* 0.1	X	* 0.1	0.0	MADE GROUND. Brown slightly gravelly clayey silt with frequent rootlets, fragments of glass and ceramic, re-bar and a large piece of metal (0.5cm thick by 30cm long).Gravel is fine-medium and angular.	Starter pit water logged Damp, NVO	0.0								
								1.0	Firm brown-orange very silty slightly gravelly CLAY with flecks of black and yellow organic matter. Gravel is fine and subangular.	Dry, NVO	1.0				
												2.0	Very soft black mottled brown organic CLAY.	Damp, NVO	2.0
3.5	3.5	3.5	3.5												
				4.0	4.0	4.0	4.0								
								4.5	4.5	4.5	4.5				
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BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP732E		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 6th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : KL		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
DESCRIPTION		COMMENTS								
0.3m Leachate: (Surfactants, TPH-CWG) Soil: (TPH- CWG, VOC)	X	* *								

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP733E		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 6th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : KL		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
DESCRIPTION		COMMENTS								
0.5m Leachate: (Metals, Total Cyanide, Orthophosp hate, Sulphate, pH, TPH- CWG, SVOC) Soil: (TPH (ali/aro spli), VOC, SVOC)	* \leq 0.1		MADE GROUND. Brown slightly gravelly clayey silt with fragments of ceramic and glass, frequent brick cobbles and frequent rootlets. Gravel is medium-coarse and angular.	Dry, NVO	0.0					
			Frim light brown-orange mottled black very silty slightly gravelly CLAY. Gravel is fine to medium and angular.	Dry, NVO	0.5					
			Soft black mottled brown slightly gravelly organic CLAY. Gravel is fine to medium and angular.	Damp, NVO	1.0					
1.9m Leachate: (Surfactants)	* \leq 0.1		Terminated at 2m, reached natural ground		1.5					
						2.0				
						2.5				
						3.0				
						3.5				
						4.0				
						4.5				
						5.0				


LOCATION / NOTES:


NVO = No visual or olfactory evidence of contamination


Ground Level 91.497 mAOD


Trial pit is backfilled with spoil


LEGEND


 Disturbed Sample

 Undisturbed Sample

 Headspace Analysis

 Down Borehole Analysis

 Groundwater Table

 Perched Water Table

BOREHOLE LOG

Job Title: Plots D,E,F,G, A & C Site Investigations

Location: Whitehaven

Client: Rhodia

App'd:

Drawn : KL

Scale: as shown


Drg. Size: A4

Date: 09/03/07

Ref: Plot E

Job No: 44320215




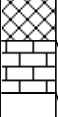

BOREHOLE LOG










BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS734E		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 6th March 2007		DRILLING METHODS : Window Sampling	
							DRILLER : Global Probing & Sampling		BOREHOLE DIAMETER : 200mm	
							LOGGED BY : PM		SCREEN TYPE & DIAM: 50mm (Geosock)	
							CHECKED BY : ARD		SCREEN SLOT SIZE: 1mm	
DESCRIPTION		COMMENTS								
	0.4m	Leachate: (Orthophosphate, additional parameters*)	* <0.1		0.0	MADE GROUND. Concrete with thin re-bar at base.	Dry, NVO	0.0		
		Soil: (Ammonium, Nitrate, additional parameters*)	* <0.1		0.5	MADE GROUND. Brown slightly sandy very calyey fine to medium, subangular to subrounded gravel of limestone hardcore and clinker. Possibly some white chemical staining.		0.5		
					1.0	Stiff orange-brown gravelly CLAY. Gravel is fine to medium subrounded to rounded sandstone with some coarse gritstone.		1.0		
	0.8m	Leachate: (TPH-CWG, SVOC) Soil: (TPH-CWG, VOC, SVOC)	* <0.1		1.5	Soft dark brown mottled black slightly gravelly SILT. Gravel is fine subrounded vitrinite and sandstone.	Damp, NVO	1.5		
	0.9m	Leachate: (Surfactants, Orthophosphate, Sulphate, pH)			2.0	White coarse subangular GRAVEL of very fine grained limestone.	20% recovery Cobbles of bedrock in clay matrix rather than bedrock - perhaps weathered	2.0		
					2.5			2.5		
					3.0	Very soft borwn slightly sandy very gravelly CLAY. Gravel is fine subangular to subrounded limestone.		3.0		
3.4m	Leachate: (Surfactants, Metals, Total Cyanide, Orthophosphate, Sulphate, pH, TPH-CWG) Soil: (Total Cyanide, Orthophosphate, TOC/PSD)	* <0.1		3.5	Refusal at 3.4m - possibly on bedrock.		3.5			
LOCATION / NOTES:		LEGEND		BOREHOLE LOG						
NVO = No visual or olfactory evidence of contamination		Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table		Job Title: Plots D,E,F,G, A & C Site Investigations Location: Whitehaven Client: Rhodia						
Ground Level 90.822 mAOD Trial pit is backfilled with spoil **Additional parameters at 0.4m: Metals, Total Cyanide, Sulphate, pH										
				App'd: Date: 09/03/07						
				Drawn : KL Ref: Plot E						
				Scale: as shown Job No: 44320215						
				Drg. Size: A4 BOREHOLE LOG						

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP735E		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 6th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : VS		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
				DESCRIPTION		COMMENTS				
0.4m Leachate: (Surfactants, Orthophosphate, Sulphate, pH, TPH-CWG) Soil: (Metals)					0.0	MADE GROUND. Concrete.		NVO		0.0
					0.5	MADE GROUND. Grey gravelly sand.		NVO		0.5
					1.0	MADE GROUND. Soft red-orange clayey silt with fine gravel and flecks of black organic matter.		Slight petrol odour		1.0
					1.5	MADE GROUND. Black-grey sandy gravel of concrete, ash, slag and coal.		Strong petrol odour, damp		1.5
					2.0	Soft red-brown silty CLAY with flecks of black organic matter.			2.0	
0.7m Leachate: (Surfactants, additional parameters* *) Soil: (TPH (ali/aro split), SVOC, additional parameters* *)					2.5					2.5
					3.0	LIMESTONE.				3.0
					3.5	Terminated at 3.0m - bedrock				3.5
					4.0					4.0
					4.5					4.5
3.0m Leachate: (Surfactants, TPH-CWG, Total Cyanide, Orthophosphate, Sulphate) Soil: (VOC, Ammonium, Nitrate, Total Cyanide, Orthophosphate, Sulphate)					5.0					5.0

LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination		<div><div></div>Disturbed Sample</div> <div><div></div>Undisturbed Sample</div> <div><div>*</div>Headspace Analysis</div> <div><div>+</div>Down Borehole Analysis</div> <div><div>~</div>Groundwater Table</div> <div><div>≡</div>Perched Water Table</div>		Job Title: Plots D,E,F,G, A & C Site Investigations	
Ground Level 90.913 mAOD				Location: Whitehaven	
Trial pit is backfilled with spoil				Client: Rhodia	
**Additional parameters at 0.7m: Metals, Total Cyanide, Orthophosphate, pH				<div>URS</div>	
				App'd:	Date: 09/03/07
				Drawn : KL	Ref: Plot E
				Scale: as shown	Job No: 44320215
				Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP736E		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 5th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : KL		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
DESCRIPTION		COMMENTS								
0.35m Leachate: (Surfactants, additional parameters*) Soil: (VOC, Ammonium, Nitrate, additional parameters*) 1.0m Leachate: (TPH-CWG)	X	* * * * *	* * * * *	0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0	    	MADE GROUND. Concrete with thin re-bar.		Dry, NVO Concrete at second level - had to be broken out. Large cobbles of limestone bedrock approximately 0.7m in length. Wet, NVO	0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0	
						MADE GROUND. Red-brown slightly clayey sandy medium to coarse angular gravel of hardcore. Occasional cobbles of red brick, limestone and concrete.				
						MADE GROUND. White/grey concrete.				
						MADE GROUND. Brown slightly sandy clayey medium to coarse angular gravel with large cobbles of brick, concrete with thin re-bar, and fine limestone gravel.				
						Beige, fine LIMESTONE				
Terminated at 1m on Limestone										

LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination		 Disturbed Sample		Job Title: Plots D,E,F,G, A & C Site Investigations	
Ground Level 90.483 mAOD		 Undisturbed Sample		Location: Whitehaven	
Trial pit is backfilled with spoil		 Headspace Analysis		Client: Rhodia	
**Additional parameters at 0.35m: Metals, Total Cyanide, Orthophosphate, Sulphate, pH, TPH-CWG, SVOC		 Down Borehole Analysis			
		 Groundwater Table		App'd: Date: 09/03/07	
		 Perched Water Table		Drawn : KL Ref: Plot E	
				Scale: as shown Job No: 44320215	
				Drg. Size: A4 BOREHOLE LOG	

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP737E		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 5th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : PM		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
DESCRIPTION		COMMENTS								
0.2m Leachate: (Sulphate, TPH-CWG, SVOC) Soil: (TPH- CWG, VOC, SVOC)	☒	* <0.1	0.0	MADE GROUND. Grey concrete with thin re-bar at base.	Dry, NVO Damp, NVO	0.0				
	0.5	MADE GROUND. Grey ashy sandy fine to medium rounded to subrounded gravel of concrete and limestone hardcore with occasional red brick fragments at the surface.	0.5							
1.8m Leachate: (Surfactants, Metals, Total Cyanide, Orthophosph ate, Sulphate, pH) Soil: (Orthophosph ate, Sulphate, pH, TPH- CWG, VOC, SVOC, Ammonium, Nitrate)	☒	* <0.1	1.0	Very soft dark brown slightly sandy gravelly CLAY. Sand is medium, gravel is fine, subangular to subrounded gravel of sandstone.		1.0				
	1.5	Dark brown very gravelly CLAY. Gravel is fine to coarse subangular to subrounded sandstone with occasional cobbles of sandstone.	1.5							
			2.0	Weathered beige fine grained SANDSTONE with quartz veins. Cobbles recovered with dark brown slightly sandy clay matrix.		2.0				
			2.5	Terminated at 1.8m, reached natural ground		2.5				
			3.0			3.0				
			3.5			3.5				
			4.0			4.0				
			4.5			4.5				
			5.0			5.0				

LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination		☒	Disturbed Sample	Job Title: Plots D,E,F,G, A & C Site Investigations	
Ground Level 90.968 mAOD		■	Undisturbed Sample	Location: Whitehaven	
Trial pit is backfilled with spoil		*	Headspace Analysis	Client: Rhodia	
		⋈	Down Borehole Analysis	App'd:	Date: 09/03/07
		⬇	Groundwater Table	Drawn : KL	Ref: Plot E
		≡	Perched Water Table	Scale: as shown	Job No: 44320215
				Drg. Size: A4	BOREHOLE LOG

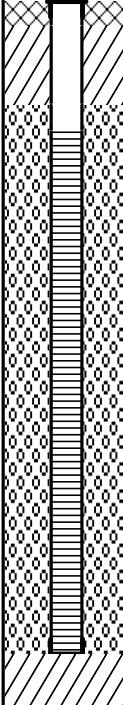
URS








BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP 738E		PAGE 1 of 1							
	NUMBER	TYPE					DRILLING DATES: 5th March 2007		DRILLING METHODS : Trial Pitting							
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a							
							LOGGED BY : KL		SCREEN TYPE & DIAM: n/a							
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a							
DESCRIPTION		COMMENTS														
0.3m Leachate: (Surfactants, Metals, Total Cyanide, additional parameters*) Soil: (VOC, additional parameters*)	X	* 0.1	* 0.1	0.0	MADE GROUND. Grey concrete with thin re-bar.	0.2-0.4m along the east side of the trial pit was a wooden beam	0.0									
								MADE GROUND. Grey coarse subangular to angular gravel with frequent cobbles of concrete and brick.	Damp, NVO	0.5						
											MADE GROUND. Soft black-brown very gravelly clay with occasional bands of orange sandy clay. Gravel is medium to coarse and angular of brick, concrete with occasional slate and limestone.	1.0				
													Soft black-brown very gravelly CLAY with pockets of soft orange sandy clay. Gravel is medium to coarse with frequent cobbles of limestone.	1.5		
															Light grey crystalline fine grained LIMESTONE with occasional purple veining	2.0
1.8m Leachate: (Total Cyanide, Orthophosp hate, VOC, SVOC) Soil: (Orthophosp hate, SVOC, Ammonium, Nitrate)	X	* 1.0	* 1.0	2.0	Terminated at 1.8m on bedrock		2.0									

LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination		<div><div></div>Disturbed Sample</div> <div><div></div>Undisturbed Sample</div> <div><div>*</div>Headspace Analysis</div> <div><div></div>Down Borehole Analysis</div> <div><div></div>Groundwater Table</div> <div><div></div>Perched Water Table</div>		Job Title: Plots D,E,F,G, A & C Site Investigations	
Ground Level 91.708 mAOD				Location: Whitehaven	
Trial pit is backfilled with spoil				Client: Rhodia	
**Additional parameters at 0.3m:				<div>URS</div>	
Orthophosphate, Sulphate, pH, TPH-CWG				App'd: Date: 09/03/07	
				Drawn : KL Ref: Plot E	
				Scale: as shown Job No: 44320215	
				Drg. Size: A4 BOREHOLE LOG	

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP739E		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 6th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : PM		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
DESCRIPTION		COMMENTS								
0.4m Leachate: (Orthophosphate, pH, additional parameters*) Soil: (VOC, Ammonium, Nitrate, additional parameters*)	* * *	* * *	0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0	MADE GROUND. Grey clayey fine to coarse, subangular to subrounded gravel of mixed lithology including limestone, hardcore, clinker and red brick. MADE GROUND. Very soft light brown gravelly clay. Gravel is fine to medium, subangular to subrounded limestone and sandstone. Rare fragments of glass. Very soft black and brown-orange slightly gravelly CLAY. Gravel is fine to medium, subrounded of limestone and sandstone. Frequent thick roots and organic fibres. Light brown weathered SANDSTONE bedrock. Terminated at 1.35m on SANDSTONE bedrock.	Wet, NVO					
0.8m Leachate: (Surfactants, Orthophosphate, Sulphate, pH, TPH-CWG) Soil: (VOC)										

LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination		<div><div></div>Disturbed Sample</div> <div><div></div>Undisturbed Sample</div> <div><div>*</div>Headspace Analysis</div> <div><div>+</div>Down Borehole Analysis</div> <div><div>~</div>Groundwater Table</div> <div><div>≡</div>Perched Water Table</div>		Job Title: Plots D,E,F,G, A & C Site Investigations	
Ground Level 91.422 mAOD				Location: Whitehaven	
Trial pit is backfilled with spoil				Client: Rhodia	
**Additional parameters at 0.4m: Metals, Total Cyanide, TPH-CWG, SVOC				<div><div>URS</div><div>App'd: Date: 09/03/07</div><div>Drawn : KL Ref: Plot E</div><div>Scale: as shown Job No: 44320215</div><div>Drg. Size: A4 BOREHOLE LOG</div></div>	

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS740E		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 6th March 2007		DRILLING METHODS : Window Sampling	
							DRILLER : Global Probing & Sampling		BOREHOLE DIAMETER : 200mm	
							LOGGED BY : PM		SCREEN TYPE & DIAM: 50mm (Geosock)	
							CHECKED BY : ARD		SCREEN SLOT SIZE: 1mm	
DESCRIPTION		COMMENTS								
	0.6m	Leachate: (Surfactants, Metals, Orthophosp hate, Sulphate, pH)	* <0.1		0.0		MADE GROUND.Very soft dark brown slightly sandy slightly gravelly clay. Gravel is fine subangular to subrounded limestone and sandstone. Sand is medium. Frequent fine rootlets and organic fibres.	Damp, NVO	0.0	
			* <0.1		0.5		White medium-coarse subangular gravel of concrete.	Dry, NVO	0.5	
	1.1m	Leachate: (TPH-CWG) Soil: (TPH-CWG, VOC, SVOC)	* <0.1		1.0		Firm light brown mottled orange slightly sandy slightly gravelly CLAY. Gravel is fine subangular to subrounded sandstone black vitrinite and some beige gritstone. Clay becomes stiff from 1m.		1.0	
	2.5m	Leachate: (SVOC) Soil: (VOC, SVOC)	* <0.1		2.0		Soft dark brown and black slightly sandy slightly gravelly CLAY. Gravel is fine subangular to subrounded sandstone and vitrinite.	Wet, NVO	2.0	
	2.6m	Leachate: (Surfactants, TPH-CWG, additional parameters* *) Soil: (Ammonium, Nitrate, additional parameters* *)	* <0.1		2.5		Very soft black mottled orange-brown SILT with frequent traces of organic roots at 2.6m.	Wet, NVO	2.5	
							Refusal at 2.7m, on white LIMESTONE with a purple clay matrix.			3.0
										3.5
										4.0
										4.5
										5.0

LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination		 Disturbed Sample		Job Title: Plots D,E,F,G, A & C Site Investigations	
Ground Level 91.530 mAOD		 Undisturbed Sample		Location: Whitehaven	
Trial pit is backfilled with spoil		 Headspace Analysis		Client: Rhodia	
**Additional parameters at 2.6m: Metals, Total Cyanide, Orthophosphate, Sulphate, pH		 Down Borehole Analysis			
		 Groundwater Table			
		 Perched Water Table			
				App'd:	Date: 09/03/07
				Drawn : kj	Ref: Plot E
				Scale: as shown	Job No: 44320215
				Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP741E		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 6th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : KL		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
							DESCRIPTION		COMMENTS	
0.3m Leachate: (Surfactants, additional parameters*) Soil: (VOC, PCB, Ammonium, Nitrate, additional parameters*)		✕	*<0.1		0.0	MADE GROUND. Concrete with thin re-bar.			Dry, NVO	0.0
					0.5	MADE GROUND. Brown sandy medium to coarse gravel of concrete and hardcore.			Layer of plastic sheet at 0.2m	
			*<0.1		1.0	MADE GROUND. Dark brown-brown very sandy medium to coarse angular gravel with cobbles of concrete and brick and occasional pieces of wood.			Damp, NVO	0.5
					1.5	Soft orange-brown mottled black very silty slightly gravelly CLAY with pockets of light brown-orange firm clay with flecks of black and yellow organic matter. Gravel is medium to coarse with large cobbles of limestone.				1.0
					2.0					1.5
2.2m Leachate: (Surfactants, Orthophosphate, Sulphate, pH, TPH-CWG, SVOC) Soil: (VOC, SVOC)		✕	*<0.1		2.5	Light grey hard crystalline LIMESTONE.				2.0
					3.0	Terminated at 2.2m in bedrock				2.5
					3.5					3.0
					4.0					3.5
					4.5					4.0
					5.0					4.5
										5.0

LOCATION / NOTES:

NVO = No visual or olfactory evidence of contamination

Ground Level 91.893 mAOD

Trial pit is backfilled with spoil

**Additional parameters at 0.3m: Metals, Total Cyanide, Orthophosphate, Sulphate, pH, TPH-CWG, SVOC

LEGEND

✕

Disturbed Sample

■

Undisturbed Sample

*

Headspace Analysis

⬇

Down Borehole Analysis

⬇

Groundwater Table

⬇

Perched Water Table

BOREHOLE LOG

Job Title: Plots D,E,F,G, A & C Site Investigations

Location: Whitehaven

Client: Rhodia

App'd:

Date: 09/03/07

Drawn : KL

Ref: Plot E

Scale: as shown

Job No: 44320215

Drg. Size: A4

BOREHOLE LOG

URS

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP742E		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 6th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : KL		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
DESCRIPTION		COMMENTS								
0.3m Leachate: (Surfactants, TPH-CWG, SVOC) Soil: (TPH- CWG, VOC, SVOC)	✕	* <0.1	✕	* <0.1	0.0	MADE GROUND. Tarmac with grey angular gravel.	Dry, NVO	0.0		
		0.5			MADE GROUND. Orange-red gravelly sand. Gravel is medium to coarse with large cobbles of tarmac and concrete.	Dry, NVO	0.5			
2.0m Leachate: (Surfactants, TPH-CWG, additional parameters*) Soil: (Ammonium, Nitrate, additional parameters*)	✕	* <0.1	✕	* <0.1	1.0	MADE GROUND. Brown gravelly coarse sand. Gravel is medium to coarse with large cobbles of concrete.		1.0		
					2.0	Soft brown mottled black slightly gravelly CLAY with pockets of orange-brown firm clay with flecks of black and yellow organic matter. Gravel is medium and angular Towards 2.0m - becoming more gravelly. Gravel is limestone, with rare large cobbles of limestone.		1.5		
					2.0	White-grey crystalline LIMESTONE.	Dry, NVO	2.0		
					2.5	Terminated at 2m in bedrock		2.5		
					3.0			3.0		
					3.5			3.5		
					4.0			4.0		
					4.5			4.5		
					5.0			5.0		

LOCATION / NOTES:

NVO = No visual or olfactory evidence of contamination

Ground Level 91.316 mAOD

Trial pit is backfilled with spoil

**Additional parameters at 2.0m: Metals, Total Cyanide, Orthophosphate, Sulphate, pH

LEGEND

✕

Disturbed Sample

■

Undisturbed Sample

*

Headspace Analysis

⬇

Down Borehole Analysis

≡

Groundwater Table

≡

Perched Water Table

BOREHOLE LOG

Job Title: Plots D,E,F,G, A & C Site Investigations

Location: Whitehaven

Client: Rhodia

URS

App'd:

Drawn : KL

Scale: as shown

Drg. Size: A4

Date: 09/03/07

Ref: Plot E

Job No: 44320215

BOREHOLE LOG








BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP743E		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 6th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : KL		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
DESCRIPTION		COMMENTS								
0.3m Leachate: (Surfactants, TPH-CWG, additional parameters*) Soil: (TPH (ali/aro split), VOC, SVOC, PCB, additional parameters*) 2.0m Leachate: (Surfactants)	✕	✕	* 0.1	* 0.1	0.0	MADE GROUND. Concrete with thin re-bar.	Dry, NVO	0.0		
					0.2	MADE GROUND. Grey gravelly sand. Gravel is angular, fine-coarse, sand is medium-coarse. Thin band of black ash.	Dry, NVO	0.5		
					0.5	Soft brown very silty slightly gravelly CLAY with pockets of brown-orange silt and mottled black with organic matter.				
					1.0		Damp, NVO	1.0		
					1.5		Damp, NVO	1.5		
					2.0	Very soft brown mottled black organic CLAY.		2.0		
					2.5			2.5		
					3.0	White-grey crystalline LIMESTONE.		3.0		
					3.0	Terminated at 3m in bedrock				
					3.5			3.5		
					4.0			4.0		
					4.5			4.5		
					5.0			5.0		

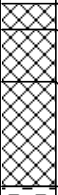
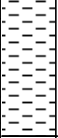
LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination		<div>✕ Disturbed Sample</div> <div>■ Undisturbed Sample</div> <div>* Headspace Analysis</div> <div>⬇ Down Borehole Analysis</div> <div>≡ Groundwater Table</div> <div>≡ Perched Water Table</div>		Job Title: Plots D,E,F,G, A & C Site Investigations	
Ground Level 91.133 mAOD				Location: Whitehaven	
Trial pit is backfilled with spoil				Client: Rhodia	
**Additional parameters at 0.3m: Metals, Total Cyanide, Orthophosphate, Sulphate, pH				<div>URS</div>	
				App'd:	Date: 09/03/07
				Drawn : VS	Ref: Plot E
				Scale: as shown	Job No: 44320215
				Drg. Size: A4	BOREHOLE LOG








BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP745E		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 5th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : PM		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
0.3m Leachate: (Metals, Total Cyanide, Orthophosphate, Sulphate, SVOC) Soil: (VOC, Ammonium, Nitrate)		*<0.1 *<0.1					DESCRIPTION		COMMENTS	
1.0m Leachate: (Surfactants, TPH-CWG, additional parameters*) Soil: (TPH (ali/aro split), VOC, additional parameters*)		*<0.1					<p>MADE GROUND. Concrete with thin re-bar at base.</p> <p>MADE GROUND. Black ashy sandy fine to coarse subrounded to rounded gravel with occasional cobbles of concrete. Sand is medium</p> <p>Very soft dark brown slightly sandy gravelly CLAY. Gravel is fine to coarse beige quartz veined fine grained sandstone.</p> <p>Beige quartz veined SANDSTONE recovered as angular cobbles with dark brown slightly gravelly slightly sandy clay matrix. Becoming solid from 0.9m. Bedrock is very fine grained orange-brown sandstone.</p> <p>Terminated at 1.1m on SANDSTONE.</p>		<p>Dry, NVO</p> <p>Damp, NVO Damp, NVO</p> <p>Damp, NVO</p>	
LOCATION / NOTES:		LEGEND		BOREHOLE LOG						
<p>NVO = No visual or olfactory evidence of contamination</p> <p>Ground Level 89.895 mAOD</p> <p>Trial pit is backfilled with spoil</p> <p>**Additional parameters at 1.0m: Metals, Total Cyanide, Orthophosphate, Sulphate, pH, SVOC</p>		<p>☒ Disturbed Sample</p> <p>■ Undisturbed Sample</p> <p>* Headspace Analysis</p> <p>⬇ Down Borehole Analysis</p> <p>≡ Groundwater Table</p> <p>≡ Perched Water Table</p>		<p>Job Title: Plots D,E,F,G, A & C Site Investigations</p> <p>Location: Whitehaven</p> <p>Client: Rhodia</p>		<p>App'd: _____ Date: 09/03/07</p> <p>Drawn : KL Ref: Plot E</p> <p>Scale: as shown Job No: 44320215</p> <p>Drg. Size: A4 BOREHOLE LOG</p>				

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP746E		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 5th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : KL		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
DESCRIPTION		COMMENTS								
0.3m Leachate: (Surfactants, additional parameters*) Soil: (VOC, SVOC, additional parameters*)	✕	* *<								

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP747E		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 6th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : VS		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
DESCRIPTION		COMMENTS								
0.6m Leachate: (TPH-CWG) Soil: (TPH (ali/aro split), VOC)	✕	* *<								

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP748E		PAGE 1 of 1													
	NUMBER	TYPE					DRILLING DATES: 6th March 2007		DRILLING METHODS : Trial Pitting													
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a													
							LOGGED BY : VS		SCREEN TYPE & DIAM: n/a													
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a													
0.2m Leachate: (Surfactants, Metals, Total Cyanide, Orthophosphate, Sulphate, pH, SVOC) Soil: (pH, VOC, SVOC)		<input checked="" type="checkbox"/>	*<0.1 *<0.1		0.0		DESCRIPTION		COMMENTS	0.0												
MADE GROUND. Tarmac hardstanding.							MADE GROUND. Red gravel in medium grained sand.		Dry, NVO													
Soft brown CLAY with occasional large cobbles of limestone.					0.5																	
1.3m Leachate: (Orthophosphate, TPH-CWG) Soil: (TPH-CWG)		<input checked="" type="checkbox"/>	*<0.1		1.0				NVO	1.0												
Terminated at 1.3m on LIMESTONE.					1.5					1.5												
					2.0					2.0												
					2.5					2.5												
					3.0					3.0												
					3.5					3.5												
					4.0					4.0												
					4.5					4.5												
					5.0					5.0												
LOCATION / NOTES: NVO = No visual or olfactory evidence of contamination Ground Level 91.822 mAOD Trial pit is backfilled with spoil					LEGEND  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table					BOREHOLE LOG Job Title: Plots D,E,F,G, A & C Site Investigations Location: Whitehaven Client: Rhodia <div>  <table border="1"> <tr> <td>App'd:</td> <td>Date: 09/03/07</td> </tr> <tr> <td>Drawn : KL</td> <td>Ref: Plot E</td> </tr> <tr> <td>Scale: as shown</td> <td>Job No: 44320215</td> </tr> <tr> <td>Drg. Size: A4</td> <td>BOREHOLE LOG</td> </tr> </table> </div>					App'd:	Date: 09/03/07	Drawn : KL	Ref: Plot E	Scale: as shown	Job No: 44320215	Drg. Size: A4	BOREHOLE LOG
App'd:	Date: 09/03/07																					
Drawn : KL	Ref: Plot E																					
Scale: as shown	Job No: 44320215																					
Drg. Size: A4	BOREHOLE LOG																					

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP749E		PAGE 1 of 1		
	NUMBER	TYPE					DRILLING DATES: 6th March 2007		DRILLING METHODS : Trial Pitting		
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a		
							LOGGED BY : VS		SCREEN TYPE & DIAM: n/a		
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a		
0.5m Leachate: (Surfactants, Total Cyanide, Orthophosp hate, Sulphate, pH, TPH- CWG, SVOC) Soil: (TPH- CWG, VOC, SVOC, Ammonium, Nitrate)	1.25m Leachate: (Metals, Total Cyanide, Orthophosp hate, Sulphate, pH)	* * * * *	* * * * *	0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0	 	DESCRIPTION		COMMENTS			
						MADE GROUND. Tarmac hardstanding.		NVO	0.0		
						MADE GROUND. Red washed gravel with medium grained sand.		NVO	0.5		
						MADE GROUND. Brown gravel with fragments of brick and cobbles.		Damp, NVO	1.0		
						Very soft dark brown CLAY with occasional large cobbles of limestone.			1.5		
Terminated at 1.25m on LIMESTONE			1.5								
											2.0
											2.5
											3.0
											3.5
											4.0
											4.5
											5.0

LOCATION / NOTES: NVO = No visual or olfactory evidence of contamination Ground Level 91.868 mAOD Trial pit is backfilled with spoil	LEGEND  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	BOREHOLE LOG	
		Job Title: Plots D,E,F,G, A & C Site Investigations	
		Location: Whitehaven	
		Client: Rhodia	
			
App'd:	Date: 09/03/07		
Drawn : KL	Ref: Plot E		
Scale: as shown	Job No: 44320215		
Drg. Size: A4	BOREHOLE LOG		

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP750E		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 6th March 2007		DRILLING METHODS : Trial Pitting	
							DRILLER : Joy Plant		BOREHOLE DIAMETER : n/a	
							LOGGED BY : VS		SCREEN TYPE & DIAM: n/a	
							CHECKED BY : ARD		SCREEN SLOT SIZE: n/a	
						DESCRIPTION		COMMENTS		
0.6m Leachate: (Surfactants, additional parameters*) Soil: (VOC, Ammonium, Nitrate, additional parameters*)	X	*<0.1			0.0		MADE GROUND. Dark brown slightly clayey fine sand with occasional cobbles of limestone and brick with fragments of plastic and rootlets.		NVO	0.0
					0.5		Soft grey-brown clayey SILT.		NVO	0.5
					1.0		Yellow-red-brown silty CLAY with flecks of black organic matter and pockets of white and yellow fine grained sand and cobbles of grey-yellow sandstone.		NVO	1.0
					1.5		Dark brown-black silty CLAY with yellow-brown pockets of silt and occasional cobbles of limestone.		Moist, NVO	1.5
					2.0		Terminated at 2m in LIMESTONE			2.0
2.0m Leachate: (Surfactants, Total Cyanide, Orthophosp hate, Sulphate, pH, TPH- CWG) Soil: (TPH- CWG, SVOC)	X	*<0.1			2.5					2.5
					3.0					3.0
					3.5					3.5
					4.0					4.0
					4.5					4.5
					5.0					5.0

LOCATION / NOTES:

NVO = No visual or olfactory evidence of contamination

Ground Level 91.893 mAOD

Trial pit is backfilled with spoil

**Additional parameters at 0.6m: Metals, Total Cyanide, Orthophosphate, Sulphate, pH, VOC

LEGEND

Disturbed Sample

Undisturbed Sample

Headspace Analysis

Down Borehole Analysis

Groundwater Table

Perched Water Table

BOREHOLE LOG

Job Title: Plots D,E,F,G, A & C Site Investigations

Location: Whitehaven

Client: Rhodia

App'd:

Date: 09/03/07

Drawn : KL

Ref: Plot E

Scale: as shown

Job No: 44320215

Drg. Size: A4

BOREHOLE LOG

Monitoring Well Log: SB20

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Client:	Huntsman Surface Sciences Ltd.	Borehole Diameter:	100mm
Site Location:	Whitehaven	Total Depth (m):	2.70m bgl
Project No:	9150	Ground Level (mAOD):	83.359 AD
Logged by:	RAM	Casing Level (mAOD):	-
Dates Drilled:	17/01/2003	X Co-ordinate:	-
Drilling Company:	Global Probing and Sampling	Y Co-ordinate:	-
Drilling Method:	Percussive Sampling	Drilling Rig:	Archway Competitor 130

Well Description	Well Construction	Elevation	Depth	TOV (ppmv)	Groundwater	Sample Interval	Sample No.	Graphic Log	Soil Description	Observations
Well cap		0.0	0.0						CONCRETE	
Concrete									MADE GROUND: Dense brown sandy clayey angular fine to medium Gravel of Limestone	
		-0.5	-0.5	75.0					MADE GROUND: Cobbles of crystalline Limestone with occasional metal fragments and ash	
Bentonite									No recovery	
		-1.0	-1.0	23.8						
		-1.5	-1.5							
Gravel pack										Strata noted to contain a distinct sewage or hydrocarbon odour at 2.1m bgl
		-2.0	-2.0							Strata slightly damp at 2.1m bgl
End cap				690			SB20 2.10-2.20m bgl		MADE GROUND: Soft very dark grey slightly ashy silty sandy fine to coarse Gravel	Soil bore completed at 2.50m bgl due obstruction
		-2.5	-2.5							

☐ Groundwater Strike: 2.10m bgl
☐ Standing Groundwater Level: Dry
 Comments:

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 Suite 8.01
 8 Exchange Quay
 Manchester, M5 3EJ

Location:
 Located adjacent to the Drum Filling Shed



SOIL BORE LOG: SB23

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Client:	Huntsman Surface Sciences Ltd.	Borehole Diameter:	100mm
Site Location:	Whitehaven	Total Depth (m):	1.4m bgl
Project No:	9150	Ground Level (mAOD):	79.738 AD
Logged by:	RAM	Casing Level (mAOD):	-
Dates Drilled:	16/01/2003	X Co-ordinate:	-
Drilling Company:	Global Probing and Sampling	Y Co-ordinate:	-
Drilling Method:	Percussive Sampling	Drilling Rig:	Archway Competitor 130

Description	Backfill Construction	Elevation	Depth	TOV (ppmv)	Groundwater	Sample Interval	Sample No.	Graphic Log	Soil Description	Observations
		0.0	0.0						CONCRETE	
				12.4					MADE GROUND: Loose to dense light grey rounded fine to coarse Gravel with evidence of white anhydrite crystals and vesicular clasts	
		-0.5	-0.5							
				20.3			SB23 0.80- 0.90m bgl			
		-1.0	-1.0							Soil bore completed at 1.40m bgl due to obstruction

- ☐ Groundwater Strike: Dry
- ☐ Standing Groundwater Level: Dry

Comments:
Soil bore backfilled with a cement bentonite grout

Location:
Located centrally in the distribution centre.

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