
























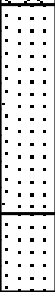









BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP651B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 25/07/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY :		SCREEN SLOT SIZE: -	
	TP651B 0.7m		*0.0		0.0	DESCRIPTION		COMMENTS	0.0	
	TP651B 1.3m		*0.0		0.5	MADE GROUND: Concrete with thick plastic sheeting beneath		Strong petrol odour. Water entering pit from old drain	0.5	
					0.5	MADE GROUND: Brown sand and hardcore gravel, with brick and rubble			0.5	
					1.0	MADE GROUND: Black clay, sand, gravel, boulders of concrete, brick and plastic			1.0	
	1.5	MADE GROUND: Soft, brown, fine sand, with occasional darker mottling Concrete at 1.5m			Damp	1.5				
End of Borehole				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		

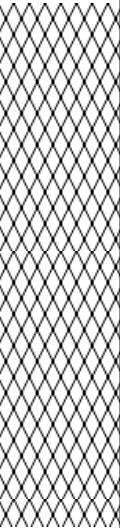









<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination		<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table		<b>BOREHOLE LOG</b> Job Title: Plots A&B Site Investigation Location: Rhodia Whitehaven Client: Rhodia			
		App'd:		Date: August 2006			
		Drawn : CM		Ref:			
		Scale: As shown		Job No: 44320021			
		Drg. Size: A4		BOREHOLE LOG			


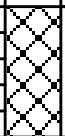
BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP652B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 25/07/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY :		SCREEN SLOT SIZE: -	
	TP652B 0.8m		*0.0		0.0		DESCRIPTION		COMMENTS	0.0
								MADE GROUND: Concrete and rebar	Damp. NVO	0.5
								MADE GROUND: Very soft, black and brown mottled clay, with concrete boulders and brick		1.0
	TP652B 1.5m		*0.0		1.5			Concrete at 1.5m in half of pit	Damp. NVO	2.0
								MADE GROUND: Soft to firm, orange brown silt Thick concrete at base, greater than 4m x 4m area		2.5
					2.0		End of Borehole			3.0
					2.5					3.5
					3.0					4.0
					3.5					4.5
					4.0					5.0
					4.5					
					5.0					








<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination	<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	<b>BOREHOLE LOG</b> Job Title: Plots A&B Site Investigation Location: Rhodia Whitehaven Client: Rhodia	
			App'd: _____ Date: August 2006 Drawn : CM Ref: _____ Scale: As shown Job No: 44320021 Drg. Size: A4 BOREHOLE LOG




BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP653B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 28/07/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY :		SCREEN SLOT SIZE: -	
	TP653B 2.3m		* 5.7  * 0.6  * 11.0  * 8.1	 	0.0	MADE GROUND: Concrete	Moderate chemical odour, black staining    Black staining	0.0		
					0.5				0.5	
					1.0				1.0	
					1.5				1.5	
					2.0	Weathered, friable, yellow brown SANDSTONE			2.0	
2.5	Stained black at 2.1m		2.5							
3.0	Yellow, coarse SANDSTONE		3.0							
3.5	End of Borehole		3.5							
4.0			4.0							
4.5			4.5							
5.0			5.0							








<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination	<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	<b>BOREHOLE LOG</b> Job Title: PLOT B Location: Whitehaven Client: Rhodia	
			App'd: _____ Drawn : LN Scale: As shown Drg. Size: A4



BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP654B		PAGE 1 of 1										
	NUMBER	TYPE					DRILLING DATES: 25/07/06		DRILLING METHODS : Trial Pit										
							DRILLER : Lawsons		BOREHOLE DIAMETER : -										
							LOGGED BY : LN		SCREEN TYPE & DIAM: -										
							CHECKED BY :		SCREEN SLOT SIZE: -										
	TP654Ba 2.0m		*90.1		0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0	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: Loose, brown sand and gravel, with brick and concrete  At 0.3m, becomes very loose, black, angular gravel.  MADE GROUND: Loose, black sand and gravel, with brick, concrete, wood, wires, plastic, corrugated iron, hardcore, clay and pipes  Clay boulder sampled  Thick concrete at 2.0m  End of Borehole		Wet, heavy chemical odour										
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: Plots A&B Site Investigation Location: Rhodia Whitehaven Client: Rhodia  <table border="1"> <tr> <td>App'd:</td> <td>Date: August 2006</td> </tr> <tr> <td>Drawn : CM</td> <td>Ref:</td> </tr> <tr> <td>Scale: As shown</td> <td>Job No: 44320021</td> </tr> <tr> <td>Drg. Size: A4</td> <td>BOREHOLE LOG</td> </tr> </table>				App'd:	Date: August 2006	Drawn : CM	Ref:	Scale: As shown	Job No: 44320021	Drg. Size: A4	BOREHOLE LOG
App'd:	Date: August 2006																		
Drawn : CM	Ref:																		
Scale: As shown	Job No: 44320021																		
Drg. Size: A4	BOREHOLE LOG																		








BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP654B - first attempt		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 25/07/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY :		SCREEN SLOT SIZE: -	
	TP654B 0.3m TP654B 0.5m		*0.0  *1.9			DESCRIPTION		COMMENTS	0.0	
						MADE GROUND: Loose, brown sand and gravel, with brick and concrete		Wet, stained black, with strong chemical odour. Ends of old pipe protruding from pit	0.5	
						At 0.3m, becomes very loose, black, angular gravel			1.0	
						End of Borehole			1.5	
									2.0	
										2.5
										3.0
										3.5
										4.0
										4.5
										5.0






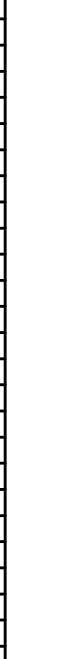








LOCATION / NOTES: NVO = No visual or olfactory evidence of contamination	LEGEND  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	BOREHOLE LOG	
		Job Title: Plots A&B Site Investigation Location: Rhodia Whitehaven Client: Rhodia	
	App'd:	Date: August 2006	
	Drawn : CM	Ref:	
	Scale: As shown	Job No: 44320021	
	Drg. Size: A4	BOREHOLE LOG	





BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP655B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 26/07/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY :		SCREEN SLOT SIZE: -	
	TP655B 0.6m		*0.0	0.0	MADE GROUND: Concrete	Dry. NVO          Damp, faint odour of docks (salt/sewage)	0.0			
	TP655B 2.3m		*0.0	0.5	MADE GROUND: Dark brown and grey gravel		0.5			
				1.0	Firm, red SILT with occasional rounded gravel		1.0			
				1.5			1.5			
				2.0	Very soft, yellow brown CLAY with boulders and cobbles of rock		2.0			
				2.5			2.5			
3.0	Loose, yellow, angular, coarse SAND and GRAVEL	3.0								
3.5	Becoming coarser with depth, with increasing boulder content (probably weathered bedrock)	3.5								
				4.0	End of Borehole	4.0				
				4.5			4.5			
				5.0			5.0			








LOCATION / NOTES: NVO = No visual or olfactory evidence of contamination	<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	<b>BOREHOLE LOG</b> Job Title: Plots A&B Site Investigation Location: Rhodia Whitehaven Client: Rhodia	
			App'd: _____ Date: August 2006 Drawn : CM _____ Ref: _____ Scale: As shown _____ Job No: 44320021 Drg. Size: A4 _____ BOREHOLE LOG






BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP655B - original location		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 26/07/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY :		SCREEN SLOT SIZE: -	
				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: Fill material and brick walls, infill of old cellar				
						End of Borehole				








<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination		<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table		<b>BOREHOLE LOG</b> Job Title: Plots A&B Site Investigation Location: Rhodia Whitehaven Client: Rhodia			
				App'd:	Date: August 2006		
				Drawn : CM	Ref:		
				Scale: As shown	Job No: 44320021		
				Drg. Size: A4	BOREHOLE LOG		




BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP656B		PAGE 1 of 1										
	NUMBER	TYPE					DRILLING DATES: 25/07/06		DRILLING METHODS : Trial Pit										
							DRILLER : Lawsons		BOREHOLE DIAMETER : -										
							LOGGED BY : LN		SCREEN TYPE & DIAM: -										
							CHECKED BY :		SCREEN SLOT SIZE: -										
	TP656B 1.0m		*38.2	0.0		DESCRIPTION		COMMENTS	0.0										
			*14.1	0.5		MADE GROUND: Concrete				0.5									
				1.0		MADE GROUND: Black sand, brick pipes, metal, plastic				1.0									
				1.5		MADE GROUND: Grey sand and gravel, with brick, concrete, ceramics, pipes and tubes				1.5									
				2.0		MADE GROUND: Coarse, brown sand with gravel, brick, pipes, metal, plastic, ceramics and tubes				2.0									
TP656B 2.3m			2.5	Hard surface at base		2.5													
				3.0	End of Borehole		3.0												
<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination				<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table				<b>BOREHOLE LOG</b> Job Title: Plots A&B Site Investigation Location: Rhodia Whitehaven Client: Rhodia  <table border="1"> <tr> <td>App'd:</td> <td>Date: August 2006</td> </tr> <tr> <td>Drawn : CM</td> <td>Ref:</td> </tr> <tr> <td>Scale: As shown</td> <td>Job No: 44320021</td> </tr> <tr> <td>Drg. Size: A4</td> <td>BOREHOLE LOG</td> </tr> </table>				App'd:	Date: August 2006	Drawn : CM	Ref:	Scale: As shown	Job No: 44320021	Drg. Size: A4	BOREHOLE LOG
App'd:	Date: August 2006																		
Drawn : CM	Ref:																		
Scale: As shown	Job No: 44320021																		
Drg. Size: A4	BOREHOLE LOG																		








BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP657B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 26/07/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY :		SCREEN SLOT SIZE: -	
	TP657B 0.8m		*0.0		0.0	MADE GROUND: Concrete and rebar	Damp, NVO	0.0		
					0.2	MADE GROUND: Red brown hardcore gravel				
					0.5	MADE GROUND: Dark brown hardcore gravel and pipe		0.5		
					1.0	MADE GROUND: Soft, red brown silt, with occasional subrounded gravel		1.0		
					1.5	Firm, red brown SILT, with occasional rounded gravel and cobbles, and lenses of yellow, fine sand		1.5		
					2.0			2.0		
	TP657B 2.8m		*0.0		2.5	Firm, dark brown mottled SILT, with occasional angular gravel, layers of wet, yellow, fine sand, patches of wet, soft, dark brown silt and a discontinuous lens of black peat (of approximate thickness 0.3m)	Dry, NVO	2.5		
					3.0		Wet in patches, NVO	3.0		
					3.5	Firm, slightly friable, brown SILT, with occasional to frequent subrounded gravel of weathered siltstone	Dry, NVO	3.5		
	TP657B 4.0m		*0.0		4.0	End of Borehole		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 A&B Site Investigation	
			Undisturbed Sample	Location: Rhodia Whitehaven	
			Headspace Analysis	Client: Rhodia	
			Down Borehole Analysis		App'd: _____
			Groundwater Table		Date: August 2006
			Perched Water Table		Drawn : CM
					Ref: _____
				Scale: As shown	Job No: 44320021
				Drg. Size: A4	BOREHOLE LOG








BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP658B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 26/07/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY :		SCREEN SLOT SIZE: -	
	TP658B 0.7m		*0.7		0.0		DESCRIPTION		COMMENTS	0.0
					0.5		MADE GROUND: Concrete and rebar		Dry, NVO	
					0.5		MADE GROUND: Grey hardcore gravel			
					1.0		MADE GROUND: Soft to firm, brown silt with black peaty mottling			
		TP658B 1.6m		*0.6		1.5		MADE GROUND: Soft, black silt with occasional concrete boulders around 1.4m		Damp, NVO
				2.0	Pinky grey, fine to medium crystalline LIMESTONE				2.0	
					2.0		End of Borehole			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








<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination	<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	<b>BOREHOLE LOG</b> Job Title: Plots A&B Site Investigation Location: Rhodia Whitehaven Client: Rhodia	
			App'd: _____ Date: August 2006 Drawn : CM Ref: _____ Scale: As shown Job No: 44320021 Drg. Size: A4 BOREHOLE LOG





BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP659B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 25/07/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY :		SCREEN SLOT SIZE: -	
	TP659B 1.0m		*>1000		DESCRIPTION		COMMENTS	0.0		
					MADE GROUND: Concrete and rebar		Very strong chemical odour. Tarry. Oil on surface.	0.0		
					MADE GROUND: Grey fine sand and hardcore gravel			0.5		
					MADE GROUND: Soft, black silt and sand, with clinker, bricks, wires and fabric.			1.0		
					Concrete at base. Pit rapidly filling with water. Grab sample taken			1.0		
End of Borehole			1.5							
								1.5		
								2.0		
								2.0		
								2.5		
								2.5		
								3.0		
								3.0		
								3.5		
								3.5		
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

<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination	<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	<b>BOREHOLE LOG</b> Job Title: Plots A&B Site Investigation Location: Rhodia Whitehaven Client: Rhodia	
			App'd: _____ Date: August 2006 Drawn : CM Ref: _____ Scale: As shown Job No: 44320021 Drg. Size: A4 BOREHOLE LOG



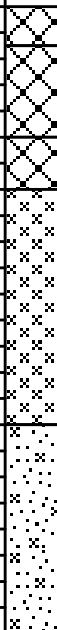














BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP661B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 24/07/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY :		SCREEN SLOT SIZE: -	
	TP661B 0.4m		*51.6		0.0		DESCRIPTION		COMMENTS	0.0
	TP661B 0.9m		*3.9		0.5			Dry		0.5
					1.0					
	TP661B 1.8m		*2.7		1.5			Damp. NVO		1.5
					2.0	End of Borehole				
					2.5					2.5
					3.0					3.0
					3.5					3.5
					4.0					4.0
					4.5					4.5
					5.0					5.0








<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination		<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table		<b>BOREHOLE LOG</b> Job Title: Plots A&B Site Investigation Location: Rhodia Whitehaven Client: Rhodia			
		App'd:		Date: August 2006			
		Drawn : CM		Ref:			
		Scale: As shown		Job No: 44320021			
		Drg. Size: A4		BOREHOLE LOG			



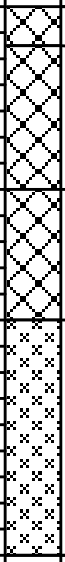









BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP662B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 24/7/6		DRILLING METHODS : Trial pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY :		SCREEN SLOT SIZE: -	
	TP662B 0.5m		*145		0.0		DESCRIPTION		COMMENTS	0.0
					0.5		MADE GROUND: Concrete with rebar		Faint chemical odour	0.5
					1.0		MADE GROUND: Grey brown, fine sand, with much grey angular gravel, brick and cobbles of reworked clay			0.8 - 1.1m, broken pipe and concrete. Black oil at base. Moderate HC odour.
		TP662B 1.40m		*9.1		1.5		MADE GROUND: Soft, orange brown silt, becoming firmer and friable with depth, with occasional lenses of yellow fine sand and rounded gravel		
					1.5		End of Borehole			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



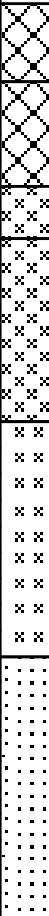


<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination  Contamination thought to be associated with leaking broken pipes than from elsewhere.		<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table		<b>BOREHOLE LOG</b> Job Title: Plots A&B Site Investigation Location: Rhodia Whitehaven Client: Rhodia <div>  <table border="1"> <tr> <td>App'd:</td> <td>Date: August 2006</td> </tr> <tr> <td>Drawn : CM</td> <td>Ref:</td> </tr> <tr> <td>Scale: As shown</td> <td>Job No: 44320021</td> </tr> <tr> <td>Drg. Size: A4</td> <td>BOREHOLE LOG</td> </tr> </table> </div>				App'd:	Date: August 2006	Drawn : CM	Ref:	Scale: As shown	Job No: 44320021	Drg. Size: A4	BOREHOLE LOG
App'd:	Date: August 2006														
Drawn : CM	Ref:														
Scale: As shown	Job No: 44320021														
Drg. Size: A4	BOREHOLE LOG														








BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP663B		PAGE 1 of 1								
	NUMBER	TYPE					DRILLING DATES: 27/07/06		DRILLING METHODS : Trial Pit								
							DRILLER : Lawsons		BOREHOLE DIAMETER : -								
							LOGGED BY : LN		SCREEN TYPE & DIAM: -								
							CHECKED BY :		SCREEN SLOT SIZE: -								
	TP663B 1.5m		* 2.3		0.0	MADE GROUND: Concrete and rebar	COMMENTS  Wet, NVO. Water streaming into pit through this layer	0.0									
	TP663B 1.9m		* 3.0		0.5	MADE GROUND: Hardcore gravel		0.5									
					1.0	MADE GROUND: Concrete and rebar		1.0									
					1.5	Soft, red brown and dark brown SILT, with occasional gravel and cobbles		1.5									
					2.0	Very soft, black and brown mottled SILT and fine SAND		2.0									
			2.5	End of Borehole	2.5												
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: PLOT B Location: Whitehaven Client: Rhodia  <table border="1"> <tr> <td>App'd:</td> <td>Date: August 2006</td> </tr> <tr> <td>Drawn : LN</td> <td>Ref:</td> </tr> <tr> <td>Scale: As shown</td> <td>Job No: 44320021</td> </tr> <tr> <td>Drg. Size: A4</td> <td>BOREHOLE LOG</td> </tr> </table>			App'd:	Date: August 2006	Drawn : LN	Ref:	Scale: As shown	Job No: 44320021	Drg. Size: A4	BOREHOLE LOG
App'd:	Date: August 2006																
Drawn : LN	Ref:																
Scale: As shown	Job No: 44320021																
Drg. Size: A4	BOREHOLE LOG																





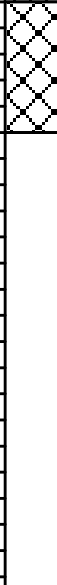
BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP664B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 27/07/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY :		SCREEN SLOT SIZE: -	
	TP664B 2.0m		* 36.9	0.0		DESCRIPTION		COMMENTS	0.0	
	TP664B 3.0m		* 7.1	0.5		MADE GROUND: Silty topsoil, with gravel, brick, concrete, roots, plastic, pipes, old drum lid		Silt lens is wet, with strong chemical odour	0.5	
				1.0		MADE GROUND: Grey concrete			1.0	
				1.5		Firm, red SILT, with occasional gravel and brick fragments			1.5	
	2.0	0.5m thick lens of black SILT, with red brick, clinker, fibres and rootlets at 2.0m		2.0						
2.5	End of Borehole		2.5							
3.0			3.0					3.0		
3.5			3.5					3.5		
4.0			4.0					4.0		
4.5			4.5					4.5		
5.0			5.0					5.0		








<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination	<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	<b>BOREHOLE LOG</b> Job Title: PLOT B Location: Whitehaven Client: Rhodia	
			App'd: _____ Date: August 2006 Drawn : LN Ref: _____ Scale: As shown Job No: 44320021 Drg. Size: A4 BOREHOLE LOG



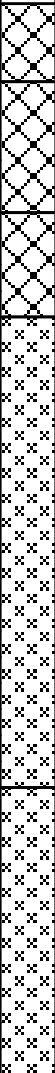


BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP665B		PAGE 1 of 1											
	NUMBER	TYPE					DRILLING DATES: 27/07/06		DRILLING METHODS : Trial Pit											
							DRILLER : Lawsons		BOREHOLE DIAMETER : -											
							LOGGED BY : LN		SCREEN TYPE & DIAM: -											
							CHECKED BY :		SCREEN SLOT SIZE: -											
	TP665B 0.9m		*165		0.0		DESCRIPTION		COMMENTS	0.0										
	TP665B 1.3m		*132		0.5		MADE GROUND: Concrete		Wet, very strong chemical odour, tarry  Moderate chemical odour.	0.0  0.5  1.0  1.5  2.0  2.5  3.0  3.5  4.0  4.5  5.0										
	TP665B 2.0m		*7.5		1.0		MADE GROUND: Hardcore gravel													
					1.5		MADE GROUND: Black silt, sand and gravel with fibres and occasional cobbles													
					2.0		Firm, red SILT, with gravel sized lenses of black tarry material at top of layer, and gravel and cobbles throughout													
				2.5	End of Borehole															
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: Location: Client: <div>  <table border="1"> <tr> <td>App'd:</td> <td>Date:</td> </tr> <tr> <td>Drawn :</td> <td>Ref:</td> </tr> <tr> <td>Scale:</td> <td>Job No:</td> </tr> <tr> <td>Drg. Size:</td> <td>BOREHOLE LOG</td> </tr> </table> </div>				App'd:	Date:	Drawn :	Ref:	Scale:	Job No:	Drg. Size:	BOREHOLE LOG
App'd:	Date:																			
Drawn :	Ref:																			
Scale:	Job No:																			
Drg. Size:	BOREHOLE LOG																			








BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP666B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 27/07/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY :		SCREEN SLOT SIZE: -	
	TP666B 2.2m		*42.6	0.0		DESCRIPTION		COMMENTS	0.0	
	TP666B 2.5m		*867	0.5		MADE GROUND: Concrete	Wet, moderate chemical odour	0.0		
				0.5		MADE GROUND: Grey, sandy hardcore gravel		0.5		
	1.0	Black SILT, of discontinuous thickness	1.0							
	TP666B 3.5m		*430	1.5		Soft to firm, red brown SILT, with occasional gravel and cobbles	Dry, faint chemical odour	1.5		
				2.0		Firm, friable, red brown SILTSTONE with occasional gravel and lenses of fine to medium, yellow sand		2.0		
2.5				Grey sand lens at 2.5m	Locally damp, moderate chemical odour	2.5				
			3.0	Yellow, medium grained SANDSTONE, with weathered surface and black silt coating bedding surfaces	Locally, black silt with strong odour	3.0				
			3.5	End of Borehole		3.5				
						4.0			4.0	
			4.5			4.5				
			5.0			5.0				





<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination		<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table		<b>BOREHOLE LOG</b> Job Title: Location: Client:						App'd: _____ Date: _____ Drawn : _____ Ref: _____ Scale: _____ Job No: _____ Drg. Size: _____ BOREHOLE LOG	
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

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP667B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 26/07/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY :		SCREEN SLOT SIZE: -	
	TP667B 1.3m		*4.7		0.0		DESCRIPTION		COMMENTS	0.0
					0.5		MADE GROUND: Concrete		Wet, chemical odour	
					0.5		MADE GROUND: Hardcore gravel			
					1.0		MADE GROUND: Grey, fine gravel of sandstone			
					1.0		MADE GROUND: Soft to firm, becoming softer and wetter with depth, red brown clay, with brick			Phenol odour
				1.5	MADE GROUND: Black silt with fused ash					
	TP667B 2.2m		*4.7		2.0		MADE GROUND: Unable to view due to pit filling with sludge. Arisings show brown silt with gravel, sand, cobbles and brick Concrete at base		Very wet	2.0
				2.5	End of Borehole					
					3.0					3.0
					3.5					3.5
					4.0					4.0
					4.5				4.5	
					5.0				5.0	








<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination		<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table		<b>BOREHOLE LOG</b> Job Title: Plots A&B Site Investigation Location: Rhodia Whitehaven Client: Rhodia			
		App'd:		Date: August 2006			
		Drawn : CM		Ref:			
		Scale: As shown		Job No: 44320021			
		Drg. Size: A4		BOREHOLE LOG			








BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP668B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 26/07/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY :		SCREEN SLOT SIZE: -	
	TP668B 1.0m		*209		0.0		DESCRIPTION		COMMENTS	0.0
					0.5		MADE GROUND: Concrete		Very wet, strong chemical odour	
					0.5		MADE GROUND: Pink sandy hardcore gravel			
					1.0		MADE GROUND: Very soft, black silt with clinker			
					1.5		Firm to stiff, red brown SILT with many subrounded gravel and cobbles			
				2.0				Isolated patches of black staining	2.0	
	TP668B 2.5m		*121		2.5					2.5
					3.0		Soft, pale and dark brown mottled SILT			3.0
					3.5				Oil sheen in patches	3.5
	TP668B 3.9m		*57.1		4.0				Water with slight oily seeping in base of pit	4.0
					4.5		End of Borehole			4.5
					5.0					5.0





<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination	<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	<b>BOREHOLE LOG</b> Job Title: Plots A&B Site Investigation Location: Rhodia Whitehaven Client: Rhodia	
			App'd: _____ Date: August 2006 Drawn : CM Ref: _____ Scale: As shown Job No: 44320021 Drg. Size: A4 BOREHOLE LOG








BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP669B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 26/07/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY :		SCREEN SLOT SIZE: -	
	TP669B 0.5m		*>1000	0.0		DESCRIPTION		COMMENTS	0.0	
	TP669B 2.1m		*2.3	0.5		MADE GROUND: Concrete			Strong chemical odour.	0.5
				0.5		MADE GROUND: Hardcore gravel				0.5
				1.0		MADE GROUND: Soft, black silt, with clinker, brick and clay				1.0
				1.0		MADE GROUND: Firm, red brown clay, with concrete boulders at depths up to 1m, becoming soft and black at depth with lenses of brown, fine sand				1.0
2.0	Hard, well cemented sandstone at base		2.0							
2.5	End of Borehole		2.5							
3.0				3.0					3.0	
3.5				3.5					3.5	
4.0				4.0					4.0	
4.5				4.5					4.5	
5.0				5.0					5.0	




<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination	<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	<b>BOREHOLE LOG</b> Job Title: Plots A&B Site Investigation Location: Rhodia Whitehaven Client: Rhodia	
			App'd: _____ Date: August 2006 Drawn : CM Ref: _____ Scale: As shown Job No: 44320021 Drg. Size: A4 BOREHOLE LOG








BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP670B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 27/07/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY :		SCREEN SLOT SIZE: -	
	TP670B 2.0m		*0.0		0.0	DESCRIPTION		COMMENTS	0.0	
			*0.0		0.5	MADE GROUND: Concrete and rebar.		Dry, NVO with rare pockets of wet black staining	0.5	
					1.0	MADE GROUND: Hardcore gravel with old pipes/drains			1.0	
					1.5	Firm, red brown SILT with frequent subrounded gravel and cobbles			1.5	
			*0.0		2.0	Soft, dark brown SILT and SAND with gravel, cobbles and boulders		Wet., NVO	2.0	
2.5				Sandstone at base		2.5				
					3.0	End of Borehole			3.0	
					3.5				3.5	
					4.0				4.0	
					4.5				4.5	
					5.0				5.0	

<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination		<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table		<b>BOREHOLE LOG</b> Job Title: Location: Client:						App'd: _____ Date: _____ Drawn : CM _____ Ref: _____ Scale: _____ Job No: _____ Drg. Size: _____ BOREHOLE LOG	
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BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP671B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 27/07/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY :		SCREEN SLOT SIZE: -	
	TP671B 1.5m		*>1000	0.0		DESCRIPTION		COMMENTS	0.0	
	TP671B 2.2m		*552	0.5		MADE GROUND: Concrete and rebar		Dry, moderate chemical odour	0.5	
				0.6m, with cobbles of yellow sandstone and occasional gravel		MADE GROUND: Red and grey hardcore gravel				
				1.0		Friable, red SILT, stained black between 0.4m and 0.6m, with cobbles of yellow sandstone and occasional gravel		Dry, faint chemical odour	1.0	
				1.5		Very soft, dark brown, occasionally mottled red brown SILT				Damp
2.0	Thickly bedded, yellow, fine grained SANDSTONE with soft, black brown silt between the beds		Damp	3.0						
2.5	End of Borehole				Damp, locally wet	4.0				
3.0										
3.5										
4.0										
4.5										
5.0										








<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination		<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table		<b>BOREHOLE LOG</b> Job Title: Plots A&B Site Investigation Location: Rhodia Whitehaven Client: Rhodia			
		App'd:		Date: August 2006			
		Drawn : CM		Ref:			
		Scale: As shown		Job No: 44320021			
		Drg. Size: A4		BOREHOLE LOG			




BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP672B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 26/07/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY :		SCREEN SLOT SIZE: -	
	TP672B 1.9m		*0.0		0.0	DESCRIPTION		COMMENTS	0.0	
					MADE GROUND: Concrete and rebar		Dry			
					MADE GROUND: Grey, sandy, hardcore gravel					
					MADE GROUND: Slightly friable, red brown silt with occasional rounded gravel					
					1.0					
					1.5					
					2.0	MADE GROUND: Very soft, yellow silt and fine sand mottled with red brown silt and black peaty layers		Damp. Wet in peaty layers		
					2.5	Becoming more sandy and gravelly at depth				
					3.0	MADE GROUND: Loose, black, sand and gravel, with clinker and clay		Wet, stained black, strong HC odour		
					3.5	Layer of black silt present at 3.2m		Strong HC odour		
4.0	At ends of pit, thinly bedded, yellow sandstone is present at approximately 3.0m		Water seeping in through black silt at base							
4.5	End of Borehole									
5.0										

<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination		<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table		<b>BOREHOLE LOG</b> Job Title: Plots A&B Site Investigation Location: Rhodia Whitehaven Client: Rhodia			
		App'd:		Date: August 2006			
		Drawn : CM		Ref:			
		Scale: As shown		Job No: 44320021			
		Drg. Size: A4		BOREHOLE LOG			



BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP674B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 27/07/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY :		SCREEN SLOT SIZE: -	
	TP674B 1.6m		*479		0.0	                   	DESCRIPTION		COMMENTS	0.0
	MADE GROUND: Hardcore gravel and plant roots		Dry.	0.0						
	MADE GROUND: Soft, black silt			0.5						
	MADE GROUND: Soft, black silt with cobbles and small boulders of rock and concrete			1.0						
	Soft, dark brown SILT and fine SAND with black lenses			1.5						
	TP674B 3.0m		*705		2.0		Damp, NVO  Black lenses of moderate chemical odour  Rare black lenses with moderate HC odour.	2.0		
Soft to firm, red brown SILT and fine SAND, with occasional gravel and cobbles, lenses of yellow fine sand, and rare black lenses		2.5								
Very soft, yellow, black and brown SILT and fine SAND with occasional subangular gravel		3.0								
Sandstone bedrock at 4.0m		3.5								
End of Borehole				4.0	Very wet, moderate chemical odour	4.0				
				4.5		4.5				
				5.0		5.0				







LOCATION / NOTES: NVO = No visual or olfactory evidence of contamination	<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	<b>BOREHOLE LOG</b> Job Title: Location: Client:	
			App'd: _____ Date: _____ Drawn : _____ Ref: _____ Scale: _____ Job No: _____ Drg. Size: _____ BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP675B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 25/07/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY :		SCREEN SLOT SIZE: -	
	TP675B 2.3m		*53.7		0.0	DESCRIPTION		COMMENTS	0.0	
					0.5	MADE GROUND: Hardcore gravel with plants and rootlets		Black water with oil on surface.	0.5	
					1.0	MADE GROUND: Black gravel, with brick, wood, clay rubble, old pipes, fabric, clinker and glass			Rapid inflow of black water with oil on surface.	1.0
					1.5					1.5
					2.0				2.0	
					2.5	End of Borehole			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

LEGEND

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

BOREHOLE LOG

Job Title: Plots A&B Site Investigation

Location: Rhodia Whitehaven

Client: Rhodia

App'd:

Drawn : CM

Scale: As shown


Drg. Size: A4

Date: August 2006





Ref:








Job No: 44320021






BOREHOLE LOG
















BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP677B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 31/07/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY : ML		SCREEN SLOT SIZE: -	
	TP677B 1.6m		* 33.3		0.0		DESCRIPTION		COMMENTS	0.0
					0.5		MADE GROUND: Pale brown topsoil with roots		Dry, faint HC odour	
					1.0		MADE GROUND: Loose, black, sandy topsoil, with gravel, brick, wood, boulders of concrete (some with an oily sheen), wires, tile, metal and boulder sized pockets of shiny clinker			
					1.5		Layer of clinker sampled at 1.6m			
					2.0					
				2.5						
				3.0						
	TP677B 3.2m		* 4.8		3.0		Yellow sandstone bedrock at 3.2m			3.0
					3.5		End of Borehole			3.5
					4.0					4.0
					4.5					4.5
					5.0					5.0








<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination	<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	<b>BOREHOLE LOG</b> Job Title: Plot B Site Investigation Location: Whitehaven Client: Rhodia	
			App'd: _____ Date: August 2006 Drawn : LN Ref: PLOT B Scale: As shown Job No: 44320021 Drg. Size: A4 BOREHOLE LOG



BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP678B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 28/08/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY : ML		SCREEN SLOT SIZE: -	
DESCRIPTION		COMMENTS								
	TP678B 2.1m		* 0.0		0.0	MADE GROUND: Red brown topsoil, with roots and a small cable	Dry	0.0		
					0.5	MADE GROUND: Grey hardcore gravel		0.5		
					1.0	MADE GROUND: Loose, grey brown sand, gravel and silt, with angular cobbles, brick and tile		1.0		
	TP678B 3.5m		* 0.0		1.5	Firm, red brown, sandy SILT, with lenses of yellow fine sand, pockets of damp, dark brown silt and occasional gravel	Damp	1.5		
					2.0	Soft, black SILT, with orange brown mottling		2.0		
2.5					At 3.6m becomes yellow and contains cobbles of yellow sandstone	2.5				
					3.5	Hard sandstone at 3.8m	Wet	3.5		
					4.0	End of Borehole		4.0		
					4.5			4.5		
					5.0			5.0		

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: Plot B Site Investigation Location: Whitehaven Client: Rhodia  <table><tr><td>App'd:</td><td>Date: August 2006</td></tr><tr><td>Drawn : LN</td><td>Ref: PLOT B</td></tr><tr><td>Scale: As shown</td><td>Job No: 44320021</td></tr><tr><td>Drg. Size: A4</td><td>BOREHOLE LOG</td></tr></table>		App'd:	Date: August 2006	Drawn : LN	Ref: PLOT B	Scale: As shown	Job No: 44320021	Drg. Size: A4	BOREHOLE LOG
App'd:	Date: August 2006												
Drawn : LN	Ref: PLOT B												
Scale: As shown	Job No: 44320021												
Drg. Size: A4	BOREHOLE LOG												
















BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP679B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 28/07/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY : ML		SCREEN SLOT SIZE: -	
	TP679B 0.6m		* 0.0	0.0		DESCRIPTION		COMMENTS	0.0	
	TP679B 2.0m		* 0.0	0.5		MADE GROUND: Orange brown, silty topsoil, with roots and grass			Dry	0.5
				0.5		MADE GROUND: Laminated, black silt (ash), breaks into gravel sized fragments				0.5
				1.0		MADE GROUND: Dark brown silt, sand and gravel, with rounded cobbles, brick, pipe, wires and plastic				1.0
	1.5	MADE GROUND: Very loose, dark brown, coarse sand and gravel, with brick and many rounded cobbles and small boulders		1.5						
2.0	End of Borehole		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	

<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination		<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table		<b>BOREHOLE LOG</b> Job Title: Plot B Site Investigation Location: Whitehaven Client: Rhodia 				App'd: Drawn : LN Scale: As shown Drg. Size: A4	Date: August 2006 Ref: PLOT B Job No: 44320021 BOREHOLE LOG
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BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP679B - first attempt		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 28/07/06		DRILLING METHODS : Trial Pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY : ML		SCREEN SLOT SIZE: -	
							DESCRIPTION		COMMENTS	0.0
							MADE GROUND: Orange brown topsoil, with roots and plants MADE GROUND: Black, silty topsoil with roots MADE GROUND: Loose, dark brown, silty topsoil, with rounded gravel, cobbles, small boulders, brick, plastic and wires		Dry, NVO	0.5
							End of Borehole			1.0
										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	LEGEND  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table		BOREHOLE LOG Job Title: Plot B Site Investigation Location: Whitehaven Client: Rhodia			
			App'd:	Date: August 2006		
			Drawn : LN	Ref: PLOT B		
			Scale: As shown	Job No: 44320021		
			Drg. Size: A4	BOREHOLE LOG		

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: TP680B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 24/07/06		DRILLING METHODS : Trial pit	
							DRILLER : Lawsons		BOREHOLE DIAMETER : -	
							LOGGED BY : LN		SCREEN TYPE & DIAM: -	
							CHECKED BY :		SCREEN SLOT SIZE: -	
	TP680B 1.3m		*2.2		0.0		DESCRIPTION		COMMENTS	0.0
					0.5		MADE GROUND: Concrete with rebar		Wet, black staining at 2.0m, slight HC odour	
					1.0		MADE GROUND: Red brown, sandy gravel, with brick and concrete rubble			
					1.5		MADE GROUND: Brown/yellow, sandy clay, with occasional angular cobbles			
	TP680B 2.0m		*2.6		2.0		Soft, grey brown, silty CLAY			2.0
	TP680B 2.45m		*1.1		2.5		End of Borehole			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  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	Job Title: Plots A&B Site Investigation Location: Rhodia Whitehaven Client: Rhodia	
			App'd: _____ Date: August 2006 Drawn : CM Ref: _____ Scale: As shown Job No: 44320021 Drg. Size: A4 BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS501A		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 16/08/2006		DRILLING METHODS : Window Sampling	
							DRILLER : GPS		BOREHOLE DIAMETER :	
							LOGGED BY : AD		SCREEN TYPE & DIAM: 50mm HDPE	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
							DESCRIPTION	COMMENTS		
				0.0			MADE GROUND: Concrete hardstanding		0.0	
			0.5			MADE GROUND: Medium dense, grey brown, rounded medium gravel fill with occasional angular coarse limestone gravel.		0.5		
			1.0			Refusal at 1.4m on rebar.		1.0		
				1.5			End of Borehole		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	
				5.5					5.5	
				6.0					6.0	
				6.5					6.5	
				7.0					7.0	

<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination  Moved location to just off cathedral footprint, refusal at 0.8m on rebar. Moved location further, refusal at 0.8m on rebar.		<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table		<b>BOREHOLE LOG</b> Job Title: Plots A&B Site Investigation Location: Whitehaven Client: Rhodia <div>  <table border="1"> <tr> <td>App'd:</td> <td>Date: September 2006</td> </tr> <tr> <td>Drawn : CM</td> <td>Ref: PLOT A</td> </tr> <tr> <td>Scale: As shown</td> <td>Job No: 44320021</td> </tr> <tr> <td>Drg. Size: A4</td> <td>BOREHOLE LOG</td> </tr> </table> </div>				App'd:	Date: September 2006	Drawn : CM	Ref: PLOT A	Scale: As shown	Job No: 44320021	Drg. Size: A4	BOREHOLE LOG
App'd:	Date: September 2006														
Drawn : CM	Ref: PLOT A														
Scale: As shown	Job No: 44320021														
Drg. Size: A4	BOREHOLE LOG														

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS502A		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 16/08/2006		DRILLING METHODS : Window Sampling	
							DRILLER : GPS		BOREHOLE DIAMETER :	
							LOGGED BY : AD		SCREEN TYPE & DIAM: 50mm HDPE	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
	WS502A 1.3-1.4m WS502A 1.4-1.5m		167	91	152	22	14	COMMENTS		
								DESCRIPTION		
								MADE GROUND: Grass topsoil (silt with occasional fine to medium angular gravel).	Dry. NVO	
								MADE GROUND: Grey brown medium dense sand with frequent fine to medium angular gravel of ash and clinker.	Dry. NVO	
								MADE GROUND: Coal fragments and fused ash.	Dry. NVO	
								MADE GROUND: Medium dense, black brown gravel of ash and clinker.	Dry. NVO	
								MADE GROUND: Soft, brown black silt. (reworked)	Stale odour. Dry-moist.	
								Firm, orange brown SILT with red, white and orange flecks of gravel.	Stale odour.	
								with single purple red sandstone clast at 2.9m	Dry-moist.	
								Becoming soft at 3.5m		
Loose, red, interbedded, medium SAND.		Wet. NVO								
Consolidated, white, slaty, weathered rock (calcareous).										
End of Borehole										

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: Plots A&B Site Investigation Location: Whitehaven Client: Rhodia <table><tr><td>App'd:</td><td>Date: September 2006</td></tr><tr><td>Drawn : CM</td><td>Ref: PLOT A</td></tr><tr><td>Scale: As shown</td><td>Job No: 44320021</td></tr><tr><td>Drg. Size: A4</td><td>BOREHOLE LOG</td></tr></table>		App'd:	Date: September 2006	Drawn : CM	Ref: PLOT A	Scale: As shown	Job No: 44320021	Drg. Size: A4	BOREHOLE LOG
App'd:	Date: September 2006												
Drawn : CM	Ref: PLOT A												
Scale: As shown	Job No: 44320021												
Drg. Size: A4	BOREHOLE LOG												

<b>BOREHOLE CONSTRUCTION</b>	<b>SAMPLE</b>		<b>SOIL VAPOUR (ppm)</b>	<b>GROUNDWATER</b>	<b>DEPTH (m)</b>	<b>GEOLOGY</b>	<b>BOREHOLE NUMBER: WS503A</b>		<b>PAGE 1 of 1</b>	
	<b>NUMBER</b>	<b>TYPE</b>					DRILLING DATES: 16/08/2006		DRILLING METHODS : Window Sampling	
							DRILLER : GPS		BOREHOLE DIAMETER :	
							LOGGED BY : AD		SCREEN TYPE & DIAM: 50mm HDPE	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
	WS503A 1.5-1.6m	X	385	232	0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5	<b>DESCRIPTION</b>		<b>COMMENTS</b>		
						MADE GROUND: Medium dense, fine to medium angular gravel of limestone.		Dry. NVO	0.0	
						MADE GROUND: Brown black, sandy silt with red brick.		Dry. NVO	0.5	
								Dry. NVO	1.0	
								Dry-moist. Moderate odour.	1.5	
						Medium firm, brown orange SILT.		Moist-wet. NVO	2.0	
						Becoming dark at 2.2m Coarse, angular to subangular, yellow GRAVEL with occasional fine yellow gravel (calcareous in nature) Refusal on calcareous rockhead.			2.5	
End of Borehole			3.0							
<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination										
<b>LEGEND</b> <div style="display: flex; align-items: center;"> <span style="margin-right: 10px;"></span> Disturbed Sample  <span style="margin-right: 10px;"></span> Undisturbed Sample  <span style="margin-right: 10px;"></span> Headspace Analysis  <span style="margin-right: 10px;"></span> Down Borehole Analysis  <span style="margin-right: 10px;"></span> Groundwater Table  <span style="margin-right: 10px;"></span> Perched Water Table         </div>										
<b>BOREHOLE LOG</b> <div style="display: flex; justify-content: space-between;"> <div>             Job Title: Plots A&amp;B Site Investigation              Location: Whitehaven              Client: Rhodia           </div> <div>   <div style="display: flex; justify-content: space-between;"> <div>               App'd:                Drawn : CM                Scale: As shown                Drg. Size: A4             </div> <div>               Date: September 2006                Ref: PLOT A                Job No: 44320021                BOREHOLE LOG             </div> </div> </div> </div>										

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS504A		PAGE 1 of 1								
	NUMBER	TYPE					DRILLING DATES: 16/08/2006		DRILLING METHODS : Window Sampling								
							DRILLER : GPS		BOREHOLE DIAMETER :								
							LOGGED BY : AD		SCREEN TYPE & DIAM: 50mm HDPE								
							CHECKED BY :		SCREEN SLOT SIZE: 1mm								
	WS504A 1.6-1.7m		700			DESCRIPTION		COMMENTS									
						MADE GROUND: Dense, angular, medium gravel of limestone.											
						MADE GROUND: Dense, angular, fine and medium gravel of red brick and clinker.											
						Soft to firm, red brown SILT with frequent flecks of blue white and black gravel.											
						Silt becoming red grey at 4.0m.											
						Weathered rock (calcareous).											
						End of Borehole											
<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination			<b>LEGEND</b> Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table			<b>BOREHOLE LOG</b> Job Title: Plots A&B Site Investigation Location: Whitehaven Client: Rhodia <div> </div> <div> <table border="1"> <tr> <td>App'd:</td> <td>Date: September 2006</td> </tr> <tr> <td>Drawn : CM</td> <td>Ref: PLOT A</td> </tr> <tr> <td>Scale: As shown</td> <td>Job No: 44320021</td> </tr> <tr> <td>Drg. Size: A4</td> <td>BOREHOLE LOG</td> </tr> </table> </div>				App'd:	Date: September 2006	Drawn : CM	Ref: PLOT A	Scale: As shown	Job No: 44320021	Drg. Size: A4	BOREHOLE LOG
App'd:	Date: September 2006																
Drawn : CM	Ref: PLOT A																
Scale: As shown	Job No: 44320021																
Drg. Size: A4	BOREHOLE LOG																

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS551B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 16/08/2006		DRILLING METHODS : Window Sampling	
							DRILLER : GPS		BOREHOLE DIAMETER :	
							LOGGED BY : AD		SCREEN TYPE & DIAM: 50mm HDPE	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
WS551B 0.5-0.6m			22			DESCRIPTION		COMMENTS		
			0.0			MADE GROUND: Sandy limestone gravel.		Dry. NVO	0.0	
			0.5			MADE GROUND: Coarse gravel of sandstone fill.		Dry. NVO	0.5	
			1.0			Soft, red purple SILT.			1.0	
			1.5					Moist-wet.	1.5	
			2.0						2.0	
			2.5			Refusal at 2.4m on large rock fragments.		Moist-wet.	2.5	
			3.0			End of Borehole			3.0	
			3.5						3.5	
			4.0						4.0	
			4.5						4.5	
			5.0						5.0	
			5.5						5.5	
			6.0						6.0	
			6.5						6.5	

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: Plots A&B Site Investigation

Location: Whitehaven

Client: Rhodia

URS

App'd:

Drawn : CM

Scale: As shown

Drg. Size: A4

Date: September 2006

Ref: PLOT B

Job No: 44320021

BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS552B		PAGE 1 of 1		
	NUMBER	TYPE					DRILLING DATES: 17/08/2006		DRILLING METHODS : Window Sampling		
							DRILLER : GPS		BOREHOLE DIAMETER :		
							LOGGED BY : AD		SCREEN TYPE & DIAM: 50mm HDPE		
							CHECKED BY :		SCREEN SLOT SIZE: 1mm		
	WS552B 1.5-1.6m		0.0  0.5  1.0  1.5  2.0  2.5  3.0  3.5  4.0  4.5  5.0  5.5  6.0  6.5			DESCRIPTION		COMMENTS	0.0  0.5  1.0  1.5  2.0  2.5  3.0  3.5  4.0  4.5  5.0  5.5  6.0  6.5		
						MADE GROUND: Cobbles and gravel of limestone.				Dry. NVO	
						Red brown SILT.					Dry. NVO
Refusal at 4.4m		Wet. NVO									
End of Borehole											

<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination	<b>LEGEND</b> Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table	<b>BOREHOLE LOG</b> Job Title: Plots A&B Site Investigation Location: Whitehaven Client: Rhodia	
			App'd: _____ Date: September 2006 Drawn : CM Ref: PLOT B Scale: As shown Job No: 44320021 Drg. Size: A4 BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS553B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 17/08/2006		DRILLING METHODS : Window Sampling	
							DRILLER : GPS		BOREHOLE DIAMETER :	
							LOGGED BY : AD		SCREEN TYPE & DIAM: 50mm HDPE	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
	WS553B 1.5-1.6m		2.0			DESCRIPTION		COMMENTS		
						MADE GROUND: Limestone gravel.				Dry. NVO  Stained.   Stained.   Wet from 2.5m. Strong odour.
						MADE GROUND: Black stained ash and fine sand fill.				
						Refusal on concrete foundation.				
						End of Borehole				
<div> <div> <b>LOCATION / NOTES:</b>            NVO = No visual or olfactory evidence of contamination         </div> <div> <b>LEGEND</b>   Disturbed Sample   Undisturbed Sample   Headspace Analysis   Down Borehole Analysis   Groundwater Table   Perched Water Table         </div> <div> <b>BOREHOLE LOG</b>            Job Title: Plots A&amp;B Site Investigation            Location: Whitehaven            Client: Rhodia  <div> <div> App'd: _____ Date: September 2006  Drawn : CM Ref: PLOT B  Scale: As shown Job No: 44320021  Drg. Size: A4 BOREHOLE LOG </div> </div> </div> </div>										

[illegible]

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS555B		PAGE 1 of 1							
	NUMBER	TYPE					DRILLING DATES: 17/08/2006		DRILLING METHODS : Window Sampling							
							DRILLER : GPS		BOREHOLE DIAMETER :							
							LOGGED BY : AD		SCREEN TYPE & DIAM: 50mm HDPE							
							CHECKED BY :		SCREEN SLOT SIZE: 1mm							
	WS555B 2.1-2.2m		3.8		0.0		DESCRIPTION		COMMENTS	0.0						
							MADE GROUND: Medium dense, sandy, fine gravel with occasional limestone gravel with wood fragment at 1.2m and red brick / half brick at 1.3-1.4m.				Dry. NVO	0.5				
													Dry. NVO	1.0		
															Dry. NVO	1.5
							Soft to firm, red brown SILT.				Dry-moist. Strong odour.	2.5				
													Dry-moist. Strong odour.	3.0		
															Dry-moist. Strong odour.	3.5
											Dry-moist. Strong odour.	4.5				
Grey white, weathered limestone, as coarse gravel.		Dry-moist. Strong odour.	5.0													
				Dry-moist. Strong odour.	5.5											
						Dry-moist. Strong odour.	6.0									
								Dry-moist. Strong odour.	6.5							
End of Borehole																

**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: Plots A&B Site Investigation  
Location: Whitehaven  
Client: Rhodia  

App'd:	Date: September 2006
Drawn : CM	Ref: PLOT B
Scale: As shown	Job No: 44320021
Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS556B		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 16/08/2006		DRILLING METHODS : Window Sampling	
							DRILLER : GPS		BOREHOLE DIAMETER :	
							LOGGED BY : AD		SCREEN TYPE & DIAM: -	
							CHECKED BY :		SCREEN SLOT SIZE: -	
							DESCRIPTION	COMMENTS		
				0.0			4 attempts. All refused at 0.4m.		0.0	
				0.5			End of Borehole		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	
				5.5					5.5	
				6.0					6.0	
				6.5					6.5	
				7.0					7.0	

<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination	<b>LEGEND</b>		<b>BOREHOLE LOG</b>	
		Disturbed Sample	Job Title: Plots A&B Site Investigation	
		Undisturbed Sample	Location: Whitehaven	
		Headspace Analysis	Client: Rhodia	
		Down Borehole Analysis	<div> </div>	
		Groundwater Table	App'd:	Date: September 2006
		Perched Water Table	Drawn : CM	Ref: PLOT B
			Scale: As shown	Job No: 44320021
			Drg. Size: A4	BOREHOLE LOG

# SOIL BORE LOG: SB4

Page 1 of 1

Client: **Huntsman Surface Sciences Ltd.** Borehole Diameter: **100mm**  
 Site Location: **Whitehaven** Total Depth (m): **3.60m bgl**  
 Project No: **9150** Ground Level (mAOD): **93.69 AD**  
 Logged by: **RAM** Casing Level (mAOD): **-**  
 Dates Drilled: **11/12/2002** 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: Reinforced concrete	
		-0.5	-0.5	12.9					MADE GROUND: Loose dark grey slightly sandy angular Gravel	
		-1.0	-1.0	15.6			SB04 0.70 - 0.80m bgl		MADE GROUND: Soft to firm black to dark brown sandy Clay with much angular coarse gravel	Sweet odour to strata at 0.85m bgl
		-1.5	-1.5						No recovery. Void encountered base of void measured to 3.6m bgl	Strata becoming very soft at 0.90m bgl
		-2.0	-2.0							
		-2.5	-2.5							
		-3.0	-3.0							
		-3.5	-3.5							Void encountered at 1.0m bgl soil bore terminated at 3.6m bgl due to loss of sampler

☐ Groundwater Strike: **Dry**  
☐ Standing Groundwater Level: **Dry**

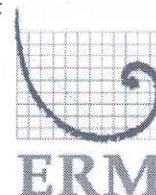
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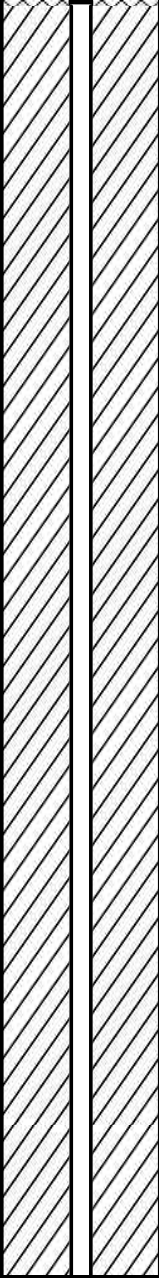
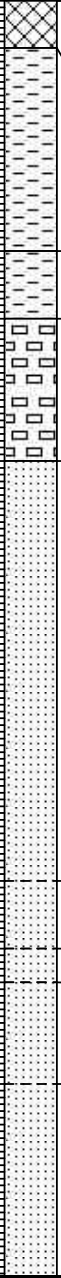
Soil bore and void backfilled with concrete

## Location:

Located adjacent to a drum storage compound.

Environmental Resources Management  
 Suite 8.01  
 8 Exchange Quay  
 Manchester, M5 3EJ









BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: BH204		PAGE 1 of 2	
	NUMBER	TYPE					DRILLING DATES: 8,9/6/2003		DRILLING METHODS : Air flush rotary	
							DRILLER : Norwest Holst		BOREHOLE DIAMETER : 200 mm	
							LOGGED BY : ARC		SCREEN TYPE & DIAM: HDPE 50mm	
		CHECKED BY :		SCREEN SLOT SIZE: 3 mm						
					0.0		DESCRIPTION		COMMENTS	0.0
			* 3.1		0.0		MADE GROUND: Loose dark brown slightly clayey silt and fine sandy soil with abundant rootlets and frequeunt dark grey pebble sized shale, rare coal and occasional white low density fine grained slag	Damp, NVO	0.0	
			* 0.0		1.0		Soft red sandy CLAY. (BOULDER CLAY).	Damp, NVO	1.0	
					2.0			becoming wet, NVO	2.0	
					3.0				3.0	
			* 0.0		4.0		Soft brown slightly sandy laminated CLAY. (BOULDER CLAY).	Becoming dry at 3.7m bgl	4.0	
			* 0.0		5.0		Chippings of pink-purple sandstone, quartz, and calcite and abundant pink-purple fine sand. (BROCKRAM).	Dry, NVO	5.0	
					6.0				6.0	
			* 0.0		7.0		Pink fine SANDSTONE. (WHITEHAVEN SANDSTONE).	Dry, NVO	7.0	
					8.0				8.0	
			* 0.0		9.0				9.0	
					10.0				10.0	
			* 0.0		11.0				11.0	
					12.0		0.2m thick puple medium sandstone at 12m bgl		12.0	
			* 0.0		13.0		Beige medium SANDSTONE. (WHITEHAVEN SANDSTONE).		13.0	
					14.0		Red coarse SANDSTONE. (WHITEHAVEN SANDSTONE).		14.0	
					15.0		Purple medium SANDSTONE. (WHITEHAVEN SANDSTONE).		15.0	
			* 0.0		16.0		Purple medium to coarse SANDSTONE. (WHITEHAVEN SANDSTONE).	Becoming damp at 17m bgl, NVO	16.0	
				17.0		17.0				
				18.0	becoming fine		18.0			

LOCATION / NOTES:

NVO = No visual or olfactory evidence of contamination

Geosock fitted

LEGEND


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

**BOREHOLE LOG**

Job Title: Further Soil and Groundwater Investigation

Location: Whitehaven, Cumbria

Client: Rhodia



App'd:	Date:
Drawn : ARC	Ref:
Scale: As shown	Job No: 44557-033-787
Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: BH204		PAGE 2 of 2	
	NUMBER	TYPE					DRILLING DATES: 8,9/6/2003		DRILLING METHODS : Air flush rotary	
							DRILLER : Norwest Holst		BOREHOLE DIAMETER : 200 mm	
							LOGGED BY : ARC		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 3 mm	
			* 0.0	19.0		Purple fine SANDSTONE. (WHITEHAVEN SANDSTONE).		COMMENTS	19.0	
						20.0				20.0
						21.0				21.0
				* 0.0		22.0				22.0
						23.0				23.0
						24.0				24.0
				* 0.0		25.0				25.0
						26.0				26.0
						27.0				27.0
				* 0.0		28.0				28.0
						29.0				29.0
				* 0.0		30.0				30.0
						31.0				31.0
				* 0.0		32.0				32.0
						33.0			Water strike at 31.5m	33.0
						34.0			Wet, NVO	34.0
						35.0				35.0
						36.0		Terminated at 35.5m bgl		36.0
				37.0				37.0		

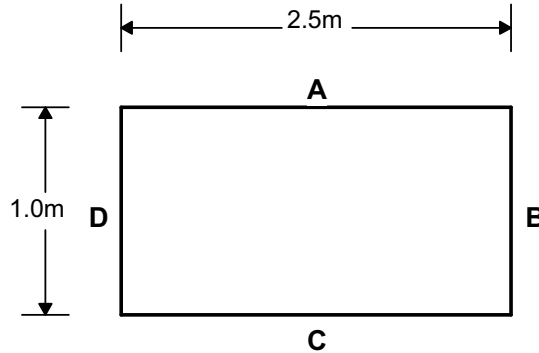
LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination	Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table NVO = No visual or	Job Title: Further Soil and Groundwater Investigation Location: Whitehaven, Cumbria Client: Rhodia	
Geosock fitted			App'd: _____ Date: _____ Drawn : ARC Ref: _____ Scale: As shown Job No: 44557-033-787 Drg. Size: A4 BOREHOLE LOG

Logged By : ARC

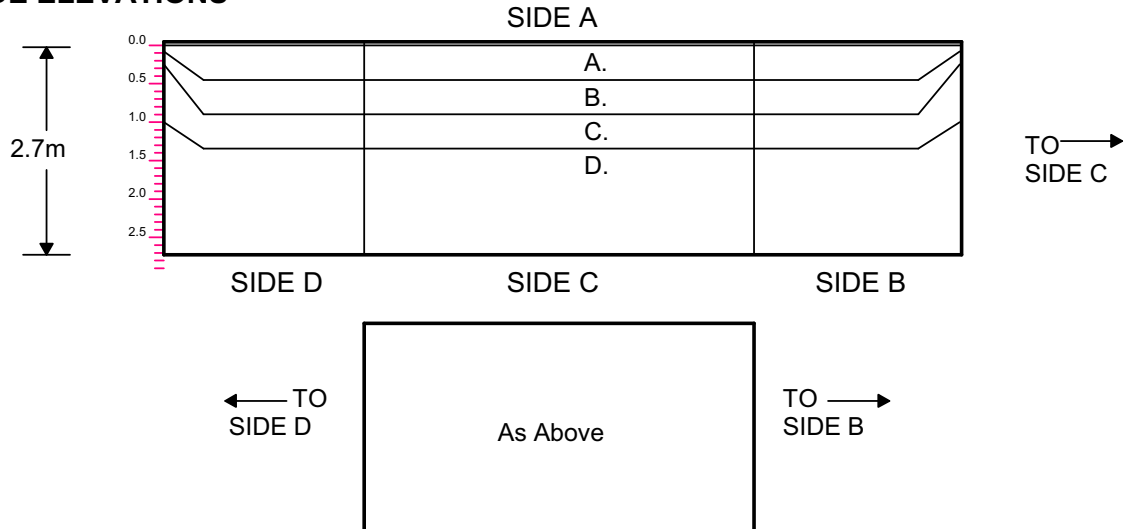
Checked By:

TRAIL PIT NUMBER: TP1  
PIT LOCATION: Former Gas Works  
DATE OF EXCAVATION: 23/04/2003  
GROUND ELEVATION -  
WATER LEVEL: -

### PLAN



### SIDE ELEVATIONS



#### STRATA DESCRIPTION

0 - 0.08m  
A. Concrete hardstanding

0.08-0.25m  
B. Concrete

0.25-1.0m  
C. MADE GROUND: Soft red-brown sandy silty CLAY with frequent well rounded to subrounded gravel to large pebble sized grey and purple sandstone

1.0-2.7m  
D. Firm red silty CLAY with abundant gravel and frequent rounded to subangular small pebble to small cobble (up to 0.4m) sized silstone and grey and purple sandstone

#### COMMENTS

PID reading at 0.5m: 0 ppm

PID reading at 1.5m: 0 ppm

NVO in MADE GROUND or CLAY.

Trial pit dry.

Refusal at 2.7m bgl

#### SAMPLE

\* TP1 0.4m: ICRCL maxi

#### KEY

BGL Below ground level

\* Sample location

SO Soil sample

WA Water sample

† Soil vapour analysis

#### TRIAL PIT LOG

Job Title: Further Soil and Groundwater Investigation

Location: Whitehaven, Cumbria

Client: Rhodia

**URS**

App'd: Date: 28/04/2003

Drawn : ARC Ref:

Scale: As shown Job No: 44557-033-787

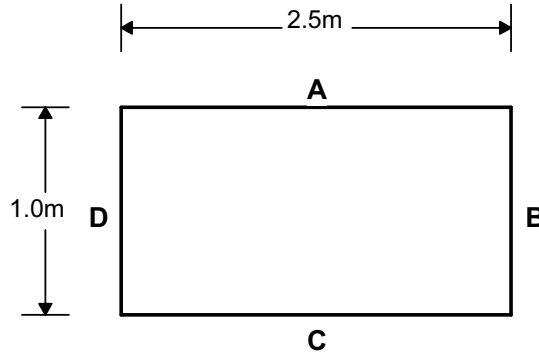
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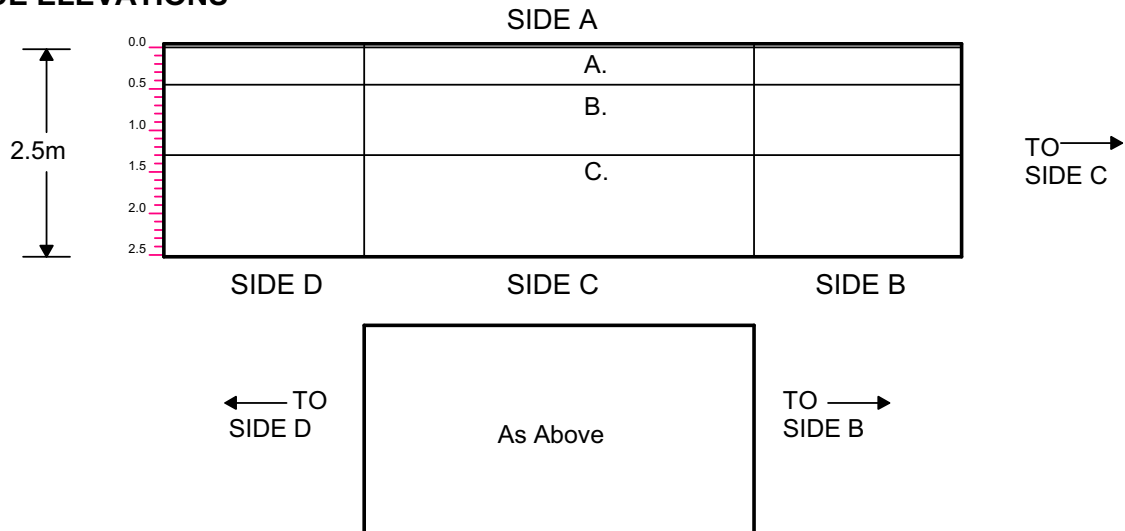
Checked By:

TRAIL PIT NUMBER: TP10  
PIT LOCATION: Former Gas Works  
DATE OF EXCAVATION: 24/04/2003  
GROUND ELEVATION -  
WATER LEVEL: -

### PLAN



### SIDE ELEVATIONS



### STRATA DESCRIPTION

0-0.45m  
A. MADE GROUND: Concrete hardstanding with steel bar reinforcing

0.45-1.3m  
B. MADE GROUND: Loose angular to subrounded limestone cobble fill (clasts generally 0.1-0.2m) with some red sand and gravel

1.3-2.5m  
C. MADE GROUND: Loose red clayey sand, gravel and small pebble to small cobble sized limestone hardcore

### COMMENTS

Dry, NVO throughout

Terminated at 2.5m bgl - walls very unstable hence repeated collapsing.

### SAMPLE

\* TP10 1.5m: ICRCL maxi

### KEY

BGL Below ground level  
\* Sample location  
SO Soil sample  
WA Water sample  
† Soil vapour analysis

### TRIAL PIT LOG

Job Title: Further Soil and Groundwater Investigation

Location: Whitehaven, Cumbria

Client: Rhodia

**URS**

App'd: Date: 28/04/2003

Drawn : ARC Ref:

Scale: As shown Job No: 44557-033-787

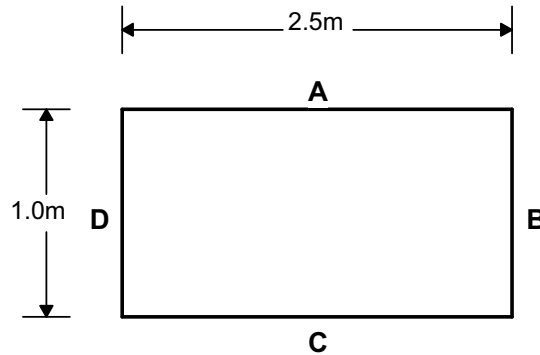
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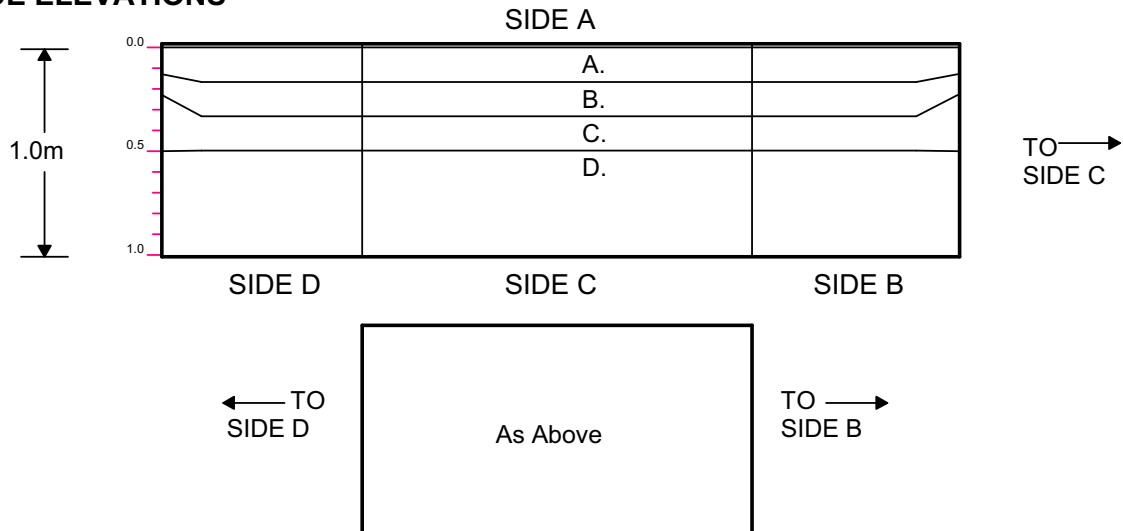
Checked By:

TRAIL PIT NUMBER: TP11  
PIT LOCATION: Former Gas Works  
DATE OF EXCAVATION: 24/04/2003  
GROUND ELEVATION -  
WATER LEVEL: -

### PLAN



### SIDE ELEVATIONS



#### STRATA DESCRIPTION

0-0.13m  
A. MADE GROUND: Concrete hardstanding

0.13-0.23m  
B. MADE GROUND: Red brick

0.23-0.5m  
C. MADE GROUND: Concrete

0.5-1.0m  
D. MADE GROUND: Red bricks set in concrete,  
loose red bricks and black sand and coal ash fill

Refusal at 1.0m bgl

#### COMMENTS

Dry, NVO  
throughout

#### SAMPLE

\* TP11 0.4m:  
ICRCL maxi,  
NRA leachate  
heavy metals

#### KEY

BGL Below ground level  
\* Sample location  
SO Soil sample  
WA Water sample  
† Soil vapour analysis

#### TRIAL PIT LOG

Job Title: Further Soil and Groundwater Investigation

Location: Whitehaven, Cumbria

Client: Rhodia

**URS**

App'd: Date: 28/04/2003

Drawn : ARC Ref:

Scale: As shown Job No: 44557-033-787

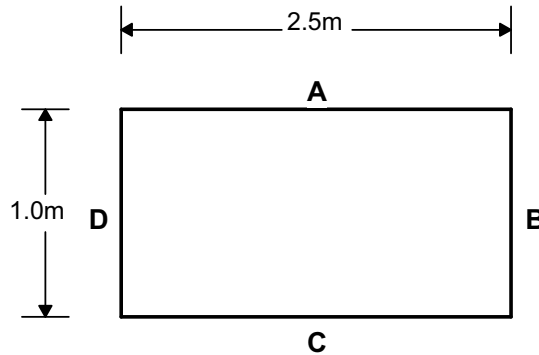
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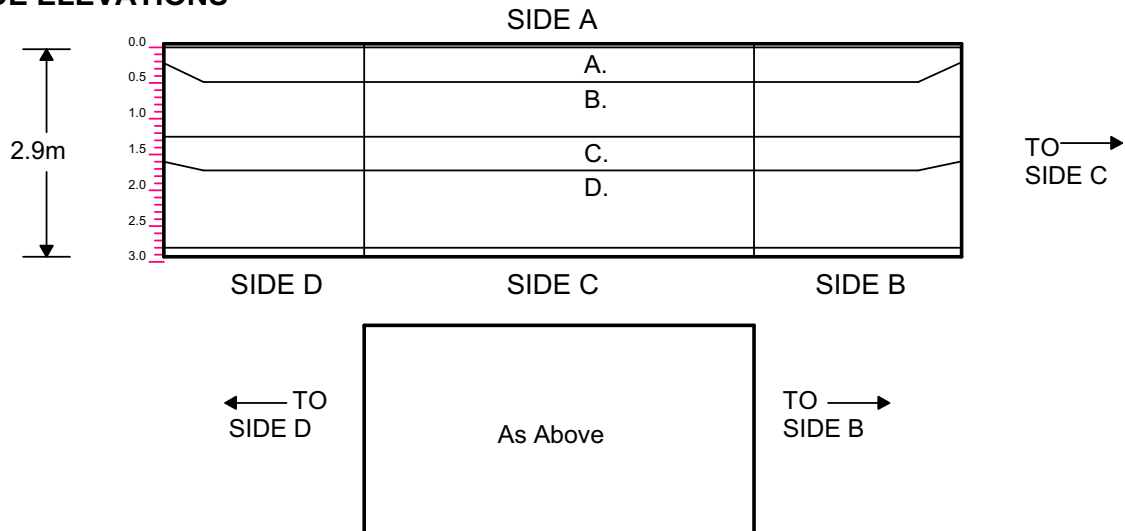
Checked By:

TRAIL PIT NUMBER: TP12  
PIT LOCATION: Former Gas Works  
DATE OF EXCAVATION: 24/04/2003  
GROUND ELEVATION -  
WATER LEVEL: -

### PLAN



### SIDE ELEVATIONS



#### STRATA DESCRIPTION

0-0.22m  
A. MADE GROUND: Concrete hardstanding  
0.22-1.25m  
B. MADE GROUND: Soft to firm reworked red clay with much sand, gravel, frequent sandstone pebbles and rare coal  
1.25-1.6m  
C. Firm red silty CLAY with frequent pockets of yellow fine sand  
1.6-2.8m  
D. Firm red silty CLAY, occasional red fine sand pockets, and black clayey peat pockets between 2.5m and 2.8m bgl  
2.8-2.9m  
E. Hard grey DOLOMITE

#### COMMENTS

NVO throughout  
PID at 0.5m: 0 ppm  
PID at 1.5m: 0 ppm  
PID at 2.5m: 0 ppm  
Returns dry except damp fine sand pockets  
Refusal at 2.9m bgl

#### SAMPLE

\* TP12 0.5m: ICRCL maxi

#### KEY

BGL Below ground level  
\* Sample location  
SO Soil sample  
WA Water sample  
† Soil vapour analysis

#### TRIAL PIT LOG

Job Title: Further Soil and Groundwater Investigation

Location: Whitehaven, Cumbria

Client: Rhodia

**URS**

App'd: Date: 28/04/2003

Drawn : ARC Ref:

Scale: As shown Job No: 44557-033-787

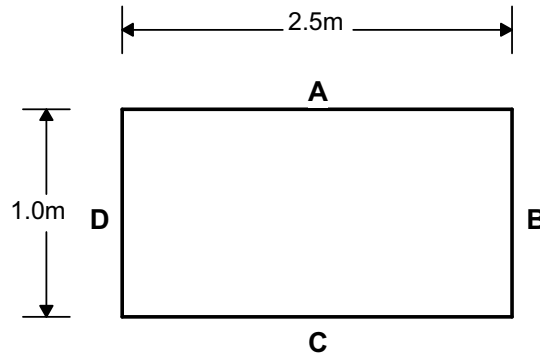
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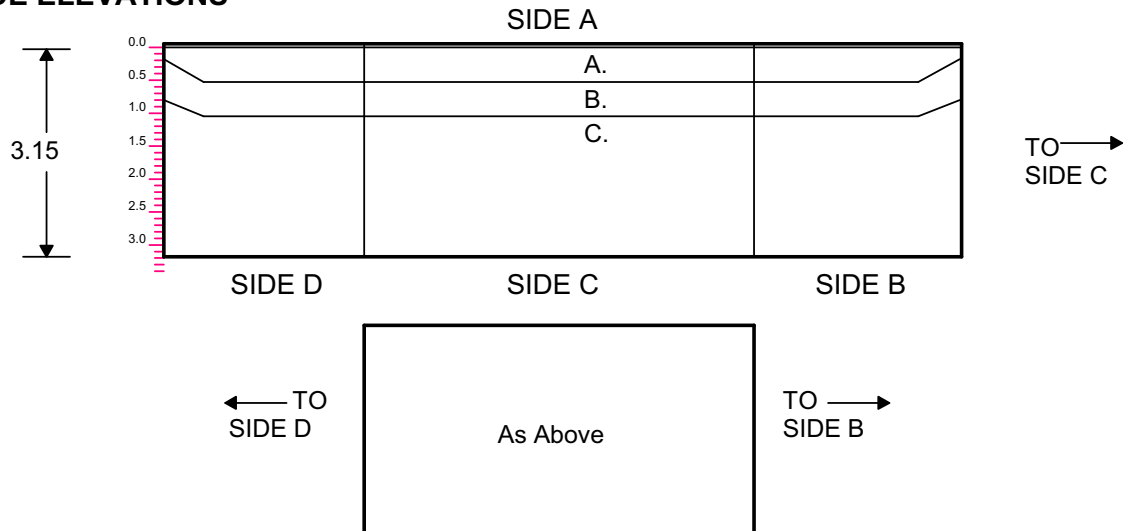
Checked By:

TRAIL PIT NUMBER: TP13  
PIT LOCATION: Former Gas Works  
DATE OF EXCAVATION: 24/04/2003  
GROUND ELEVATION -  
WATER LEVEL: -

### PLAN



### SIDE ELEVATIONS



#### STRATA DESCRIPTION

0-0.18m  
A. MADE GROUND: Concrete hardstanding

0.18-0.8m  
B. MADE GROUND: Firm red silty clay fill with some sand and gravel

0.8-3.15m  
C. Firm red silty CLAY, mottled grey in places, with occasional orange iron stained yellow pebbles and small cobbles of sandstone, occasional purple sandstone and rare coal. Black clayey peat pockets from 2.9m

#### COMMENTS

NVO throughout

PID at 0.5m: 0 ppm  
PID at 1.0m: 0 ppm  
PID at 3.0m: 0 ppm

Excavation dry

Refusal at 3.15m bgl

#### SAMPLE

\* TP13 0.3m: ICRCL maxi

#### KEY

BGL Below ground level  
\* Sample location  
SO Soil sample  
WA Water sample  
† Soil vapour analysis

#### TRIAL PIT LOG

Job Title: Further Soil and Groundwater Investigation

Location: Whitehaven, Cumbria

Client: Rhodia

**URS**

App'd: Date: 28/04/2003

Drawn : ARC Ref:

Scale: As shown Job No: 44557-033-787

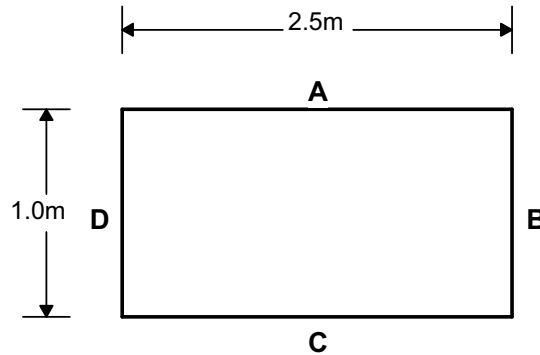
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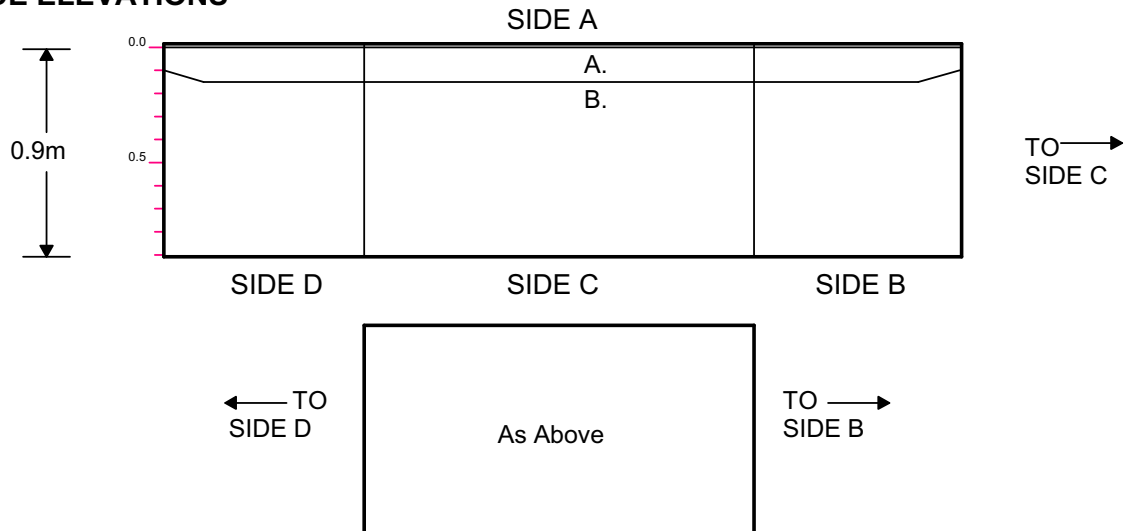
Checked By:

TRAIL PIT NUMBER: TP14  
PIT LOCATION: Former Gas Works  
DATE OF EXCAVATION: 24/04/2003  
GROUND ELEVATION -  
WATER LEVEL: -

### PLAN



### SIDE ELEVATIONS



#### STRATA DESCRIPTION

0-0.1m  
A. MADE GROUND: Concrete hardstanding

0.1-0.9m  
B. MADE GROUND: Red and yellow bricks, and red sandstone pebbles and cobbles, in a black sand and vitreous black ash fill

8 inch diameter pipe encountered at 0.9m-scratched but not broken; trial pit consequently backfilled

#### COMMENTS

Slight tar odour

PID at 0.4m: 102 ppm

Excavation dry

#### SAMPLE

\* TP14 0.4m: ICRCL maxi, NRA leachate heavy metals, VOCs, SVOCs

#### KEY

BGL Below ground level

\* Sample location

SO Soil sample

WA Water sample

† Soil vapour analysis

#### TRIAL PIT LOG

Job Title: Further Soil and Groundwater Investigation

Location: Whitehaven, Cumbria

Client: Rhodia

**URS**

App'd: Date: 28/04/2003

Drawn : ARC Ref:

Scale: As shown Job No: 44557-033-787

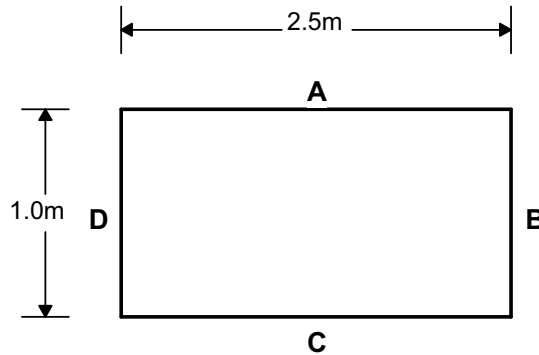
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Logged By : ARC

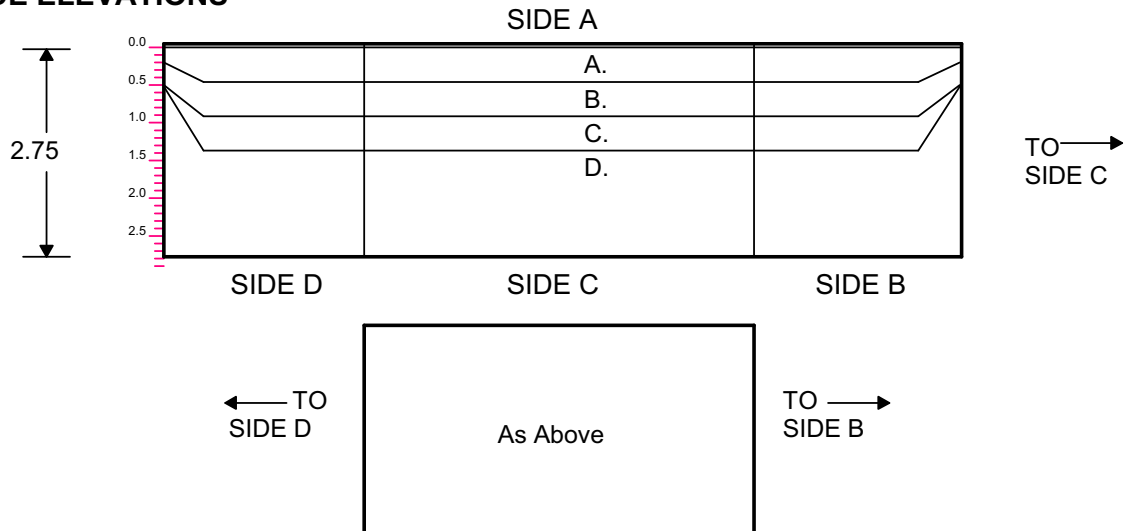
Checked By:

TRAIL PIT NUMBER: TP15  
PIT LOCATION: Former Gas Works  
DATE OF EXCAVATION: 24/04/2003  
GROUND ELEVATION -  
WATER LEVEL: -

### PLAN



### SIDE ELEVATIONS



#### STRATA DESCRIPTION

0-0.2m  
A. MADE GROUND: Loose pebbles of limestone  
hardcore  
0.2-0.5m  
B. MADE GROUND: Weak concrete  
0.5-0.52m  
C. MADE GROUND: Loose black clayey sand  
0.52-2.75m  
D. Stiff red silty CLAY with some limestone and  
siltstone gravel

#### COMMENTS

NVO  
throughout  
PID at 0.5m:  
102 ppm  
Excavation dry  
Insufficient  
volume of  
Horizon C. to  
sample  
Refusal at  
2.75m

#### SAMPLE

#### KEY

BGL Below ground level  
\* Sample location  
SO Soil sample  
WA Water sample  
† Soil vapour analysis

#### TRIAL PIT LOG

Job Title: Further Soil and Groundwater Investigation

Location: Whitehaven, Cumbria

Client: Rhodia

**URS**

App'd: Date: 28/04/2003

Drawn : ARC Ref:

Scale: As shown Job No: 44557-033-787

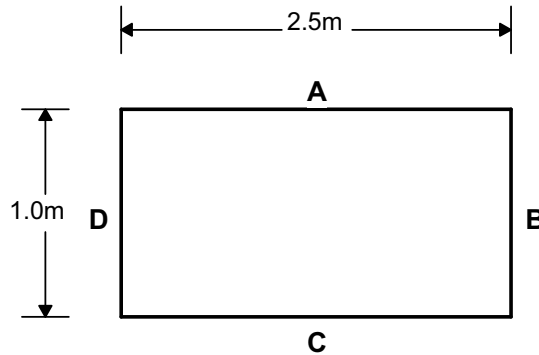
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Logged By : ARC

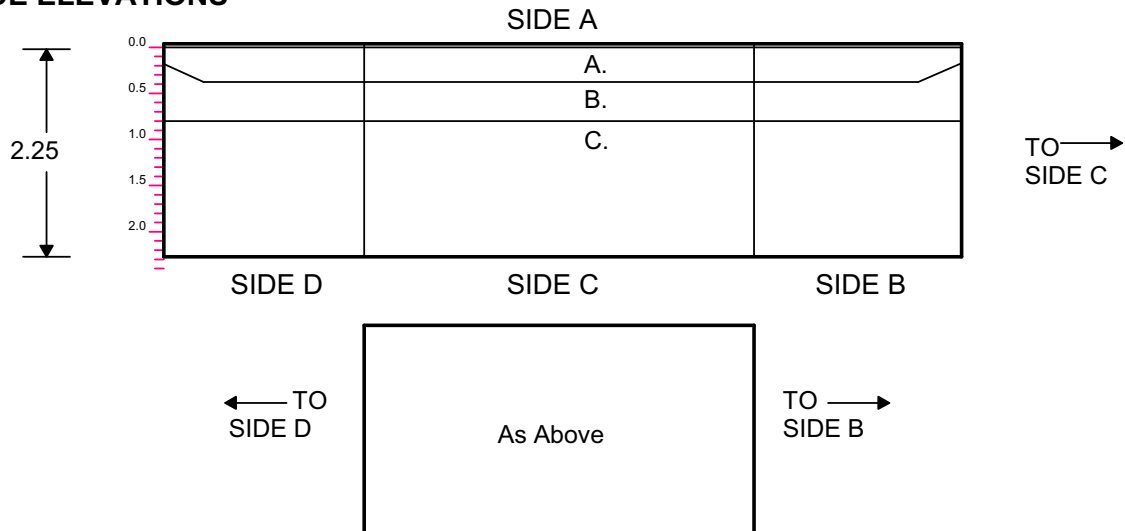
Checked By:

TRAIL PIT NUMBER: TP16  
PIT LOCATION: Former Gas Works  
DATE OF EXCAVATION: 24/04/2003  
GROUND ELEVATION -  
WATER LEVEL: -

### PLAN



### SIDE ELEVATIONS



#### STRATA DESCRIPTION

0-0.1m  
A. MADE GROUND: Loose limestone hardcore  
0.1-0.25m  
B. MADE GROUND: Weak concrete  
0.25-1.0m  
C. MADE GROUND: Loose brown to black ash and sand and gravel fill with abundant bricks and brick fragments  
1.0-2.25m  
D. MADE GROUND: Loose red sandy clay fill with frequent brick fragments

Note: Brick wall observed on Side A (0.25-1.1m) with foundations (1.1-1.6m) running E-W. Black coated bricks noted on Side D running N-S and bricks set in concrete on Side D.  
Refusal at 2.25m

#### COMMENTS

Very strong paraffin odour from 0.5-1.0m, becoming moderate to 2.25m

PID reading at 0.5m rose slowly to exceed PID limit (9999 ppm)  
PID at 2.2m: 11.8 ppm

Excavation dry

Refusal at 2.25m bgl

#### SAMPLE

\* TP16 0.5m: ICRCL maxi, NRA leachate heavy metals, VOCs, SVOCs

#### KEY

BGL Below ground level

\* Sample location

SO Soil sample

WA Water sample

† Soil vapour analysis

#### TRIAL PIT LOG

Job Title: Further Soil and Groundwater Investigation

Location: Whitehaven, Cumbria

Client: Rhodia

**URS**

App'd: Date: 28/04/2003

Drawn : ARC Ref:

Scale: As shown Job No: 44557-033-787

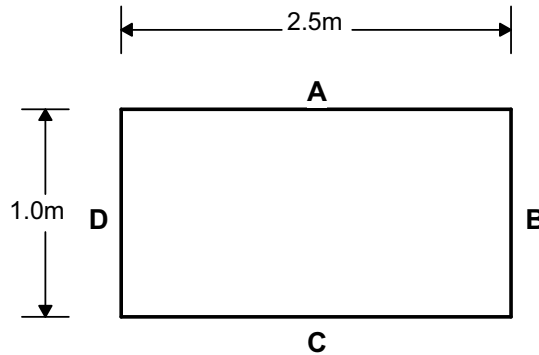
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Logged By : ARC

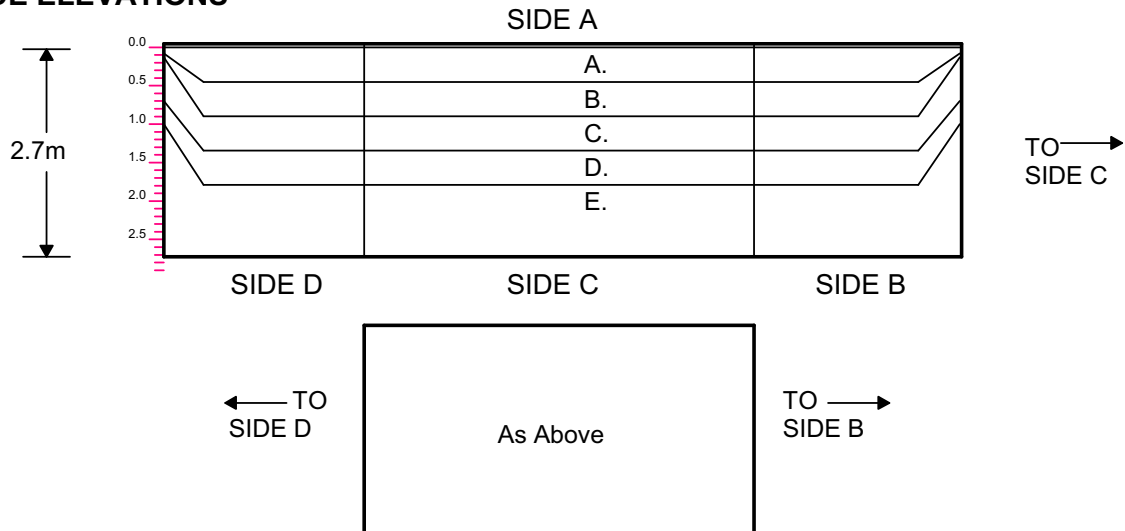
Checked By:

TRAIL PIT NUMBER: TP16  
PIT LOCATION: Former Gas Works  
DATE OF EXCAVATION: 24/04/2003  
GROUND ELEVATION -  
WATER LEVEL: -

### PLAN



### SIDE ELEVATIONS



#### STRATA DESCRIPTION

0-0.1m  
A. MADE GROUND: Concrete hardstanding

0.1-0.13m  
B. MADE GROUND: Concrete

0.13-0.7m  
C. MADE GROUND: Firm red-brown reworked silty clay with some sand and gravel

0.7-1.0m  
D. MADE GROUND: Firm red-orange reworked silty clay with some sand and gravel

1.0-2.7m  
E. Firm red-brown silty CLAY with occasional limestone, siltstone and sandstone gravel

Note: Brick wall observed on Side A (0.25-1.1m)

#### COMMENTS

NVO from surface to 2.4m bgl.  
Strong creosote odour from 2.4m

PID at 0.5m: 0.8 ppm  
PID at 2.4m: 162 ppm

Excavation dry

Refusal at 2.7m bgl

#### SAMPLE

\* TP17 2.4m: ICRCL maxi, NRA leachate heavy metals, VOCs, SVOCs

#### KEY

BGL Below ground level  
\* Sample location  
SO Soil sample  
WA Water sample  
† Soil vapour analysis

#### TRIAL PIT LOG

Job Title: Further Soil and Groundwater Investigation

Location: Whitehaven, Cumbria

Client: Rhodia

**URS**

App'd: Date: 28/04/2003

Drawn : ARC Ref:

Scale: As shown Job No: 44557-033-787

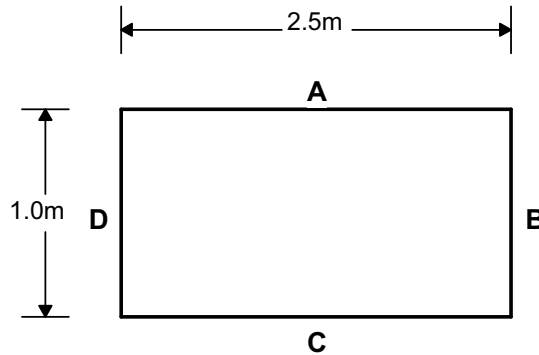
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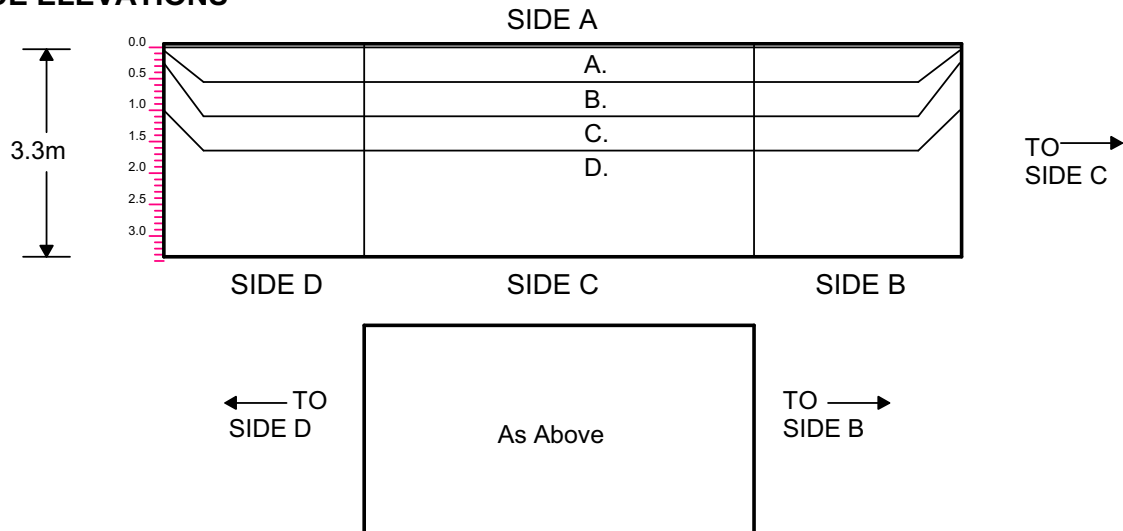
Checked By:

TRAIL PIT NUMBER: TP2  
PIT LOCATION: Former Gas Works  
DATE OF EXCAVATION: 23/04/2003  
GROUND ELEVATION -  
WATER LEVEL: -

### PLAN



### SIDE ELEVATIONS



#### STRATA DESCRIPTION

0 - 0.08m and 0.08-0.25m  
A. and B. MADE GROUND: Concrete  
hardstanding

0.25-1.0m  
C. MADE GROUND: Soft red-brown sandy silty  
clay with frequent well rounded to subrounded  
gravel to large pebble sized grey and purple  
sandstone

1.0-3.3m  
D. Firm red silty CLAY with abundant gravel and  
frequent rounded to subangular small pebble to  
small cobble (up to 0.4m) sized siltstone and grey  
and purple sandstone. Occasional yellow fine  
sand pockets from 2.0m and black clayey peat  
pockets from 3.1m

#### COMMENTS

PID reading at  
0.5m: 0 ppm

PID reading at  
1.2m: 0 ppm

PID reading at  
1.2m: 0 ppm

NVO in MADE  
GROUND or  
CLAY.

Trial pit dry  
except damp  
black clayey  
peat pockets

#### SAMPLE

\* TP2 3.2m:  
ICRCL maxi

#### KEY

BGL Below ground level

\* Sample location

SO Soil sample

WA Water sample

† Soil vapour analysis

#### TRIAL PIT LOG

Job Title: Further Soil and Groundwater Investigation

Location: Whitehaven, Cumbria

Client: Rhodia

**URS**

App'd: Date: 28/04/2003

Drawn : ARC Ref:

Scale: As shown Job No: 44557-033-787

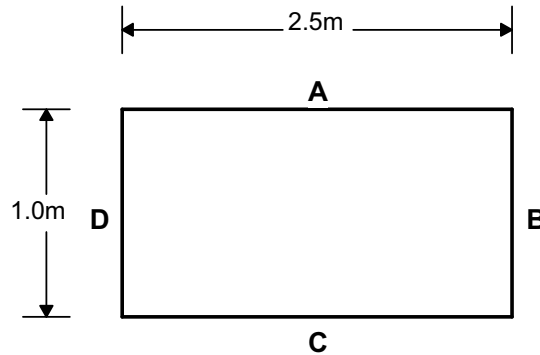
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Logged By : ARC

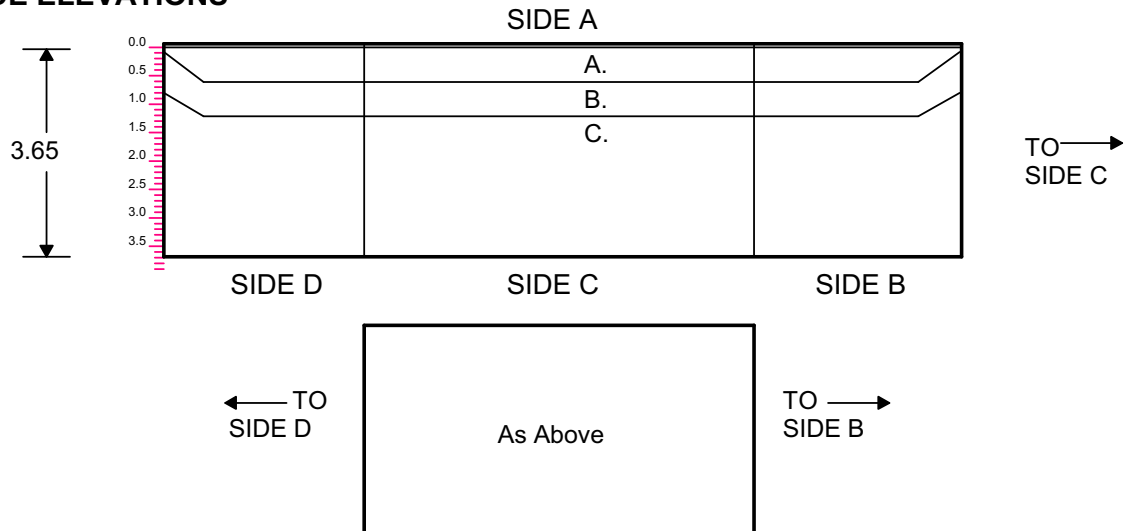
Checked By:

TRAIL PIT NUMBER: TP3  
PIT LOCATION: Former Gas Works  
DATE OF EXCAVATION: 23/04/2003  
GROUND ELEVATION -  
WATER LEVEL: -

### PLAN



### SIDE ELEVATIONS



#### STRATA DESCRIPTION

0 - 0.08m  
A. MADE GROUND: Concrete hardstanding

0.08-0.8m  
B. MADE GROUND: Soft red sandy clay fill with much sand, gravel and limestone and sandstone pebbles

0.8-3.65m  
C. Firm red silty CLAY with abundant gravel and frequent rounded to subangular small to large pebbles of sandstone. Black clayey peat horizon from 3.5m.

Terminated at 3.65m (reach of JCB)

#### COMMENTS

Strong tar odour from 0.5m bgl; moderate from 1.0m and slight from 2.0m  
PID 0.5m: 106 ppm.  
PID 1.0m: 88.2 ppm  
PID 2.0m: 61.7 ppm

Trial pit dry except damp black clayey peat

#### SAMPLE

\* TP3 0.5m: ICRCL maxi, VOCs, SVOCs, TPH

#### KEY

BGL Below ground level  
\* Sample location  
SO Soil sample  
WA Water sample  
† Soil vapour analysis

#### TRIAL PIT LOG

Job Title: Further Soil and Groundwater Investigation

Location: Whitehaven, Cumbria

Client: Rhodia

**URS**

App'd: Date: 28/04/2003

Drawn : ARC Ref:

Scale: As shown Job No: 44557-033-787

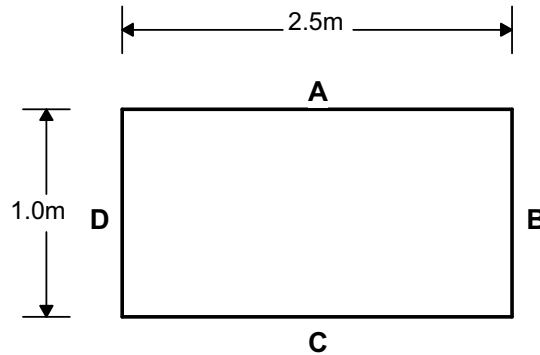
Drg. Size: A4 TRIAL PIT LOG

Logged By : ARC

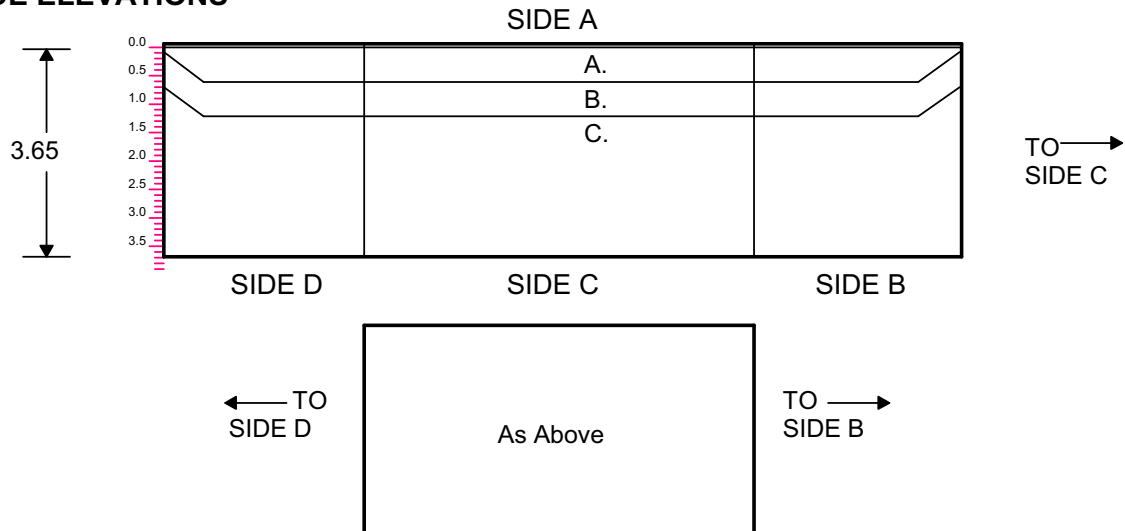
Checked By:

TRAIL PIT NUMBER: TP4  
PIT LOCATION: Former Gas Works  
DATE OF EXCAVATION: 23/04/2003  
GROUND ELEVATION -  
WATER LEVEL: -

### PLAN



### SIDE ELEVATIONS



#### STRATA DESCRIPTION

0 - 0.08m  
A. MADE GROUND: Concrete hardstanding

0.08-0.7m (Except Side B - 0.08-1.7m)  
B. MADE GROUND: Red clay fill with abundant concrete, pebble to cobble sized grey coarse grey dolomite, grey sandstone, purple sandstone, conglomerate and rare red bricks.  
Side B also comprises yellow sandstone and red/orange staining on dolomite pebbles.

0.7-3.65m  
C. Firm to stiff red silty slightly sandy CLAY with frequent gravel and rare gold platy flakes (<2mm).

Terminated at 3.65m (reach of JCB)

#### COMMENTS

NVO at 0.8m bgl.

Strong tar odour and occasional oil staining at 1.0m bgl.

PID 1.0m: 161 ppm  
PID 2.0m: 60.5 ppm

Damp pockets at 1.5m, otherwise dry.

#### SAMPLE

\* TP4 1.0m: ICRCL maxi, VOCs, SVOCs

#### KEY

BGL Below ground level  
\* Sample location  
SO Soil sample  
WA Water sample  
† Soil vapour analysis

#### TRIAL PIT LOG

Job Title: Further Soil and Groundwater Investigation

Location: Whitehaven, Cumbria

Client: Rhodia

**URS**

App'd: Date: 28/04/2003

Drawn : ARC Ref:

Scale: As shown Job No: 44557-033-787

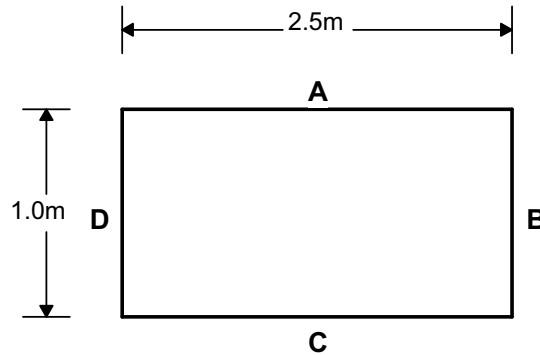
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Logged By : ARC

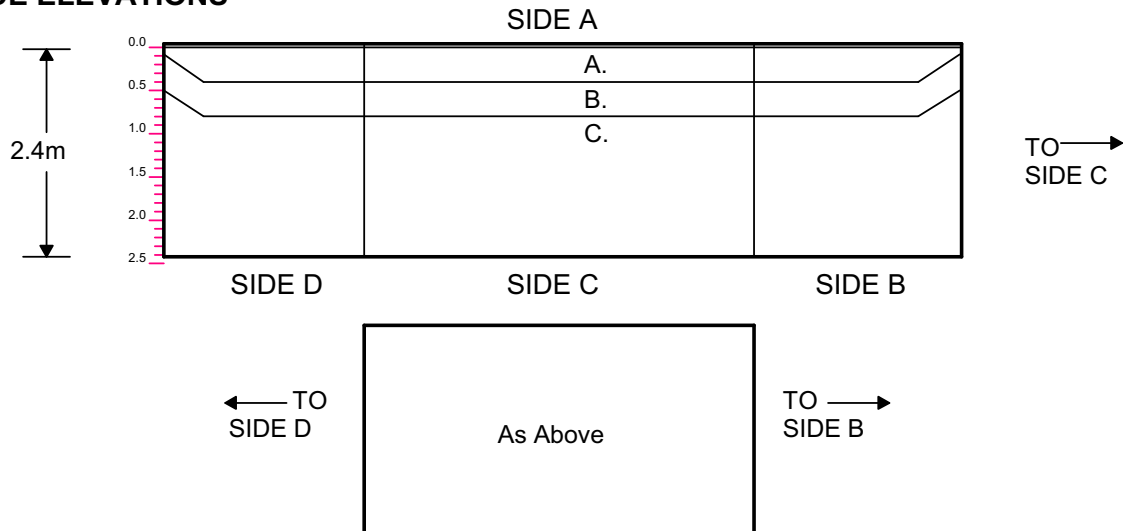
Checked By:

TRAIL PIT NUMBER: TP5  
PIT LOCATION: Former Gas Works  
DATE OF EXCAVATION: 23/04/2003  
GROUND ELEVATION -  
WATER LEVEL: -

### PLAN



### SIDE ELEVATIONS



#### STRATA DESCRIPTION

0 - 0.08m  
A. MADE GROUND: Concrete hardstanding

0.08-0.5m (Except Sides A and C- 0.08-1.2m)  
B. Sides C and D: MADE GROUND: Red brick and sand and gravel fill.  
B. Sides A: MADE GROUND: Brick wall in left corner (south) of Side A (approx 0.7m wide) to 1.2 m bgl, running approx WSW. Red brick and sand and gravel fill where bricks absent.  
B. Side B: MADE GROUND: Brick wall running approx. northwards to 1.2m bgl.

0.7-2.4m  
C. Firm red silty CLAY with abundant gravel.  
Black clayey peat at 1.9 m bgl.

#### COMMENTS

NVO throughout.

PID 1.0m: 0 ppm  
PID 0.9m: 0.5 ppm

Damp at 1.5m, otherwise dry.

Refusal at 2.4 m bgl.

#### SAMPLE

\* TP5 1.9m: ICRCL maxi

#### KEY

BGL Below ground level  
\* Sample location  
SO Soil sample  
WA Water sample  
† Soil vapour analysis

#### TRIAL PIT LOG

Job Title: Further Soil and Groundwater Investigation

Location: Whitehaven, Cumbria

Client: Rhodia

**URS**

App'd: Date: 28/04/2003

Drawn : ARC Ref:

Scale: As shown Job No: 44557-033-787

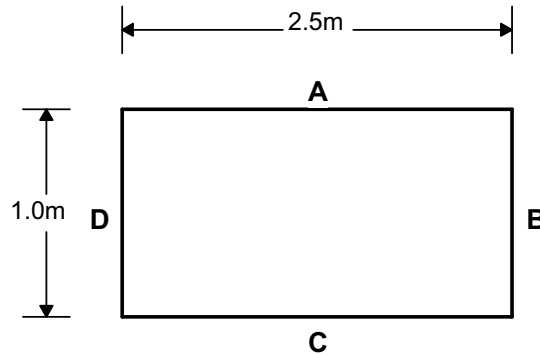
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Logged By : ARC

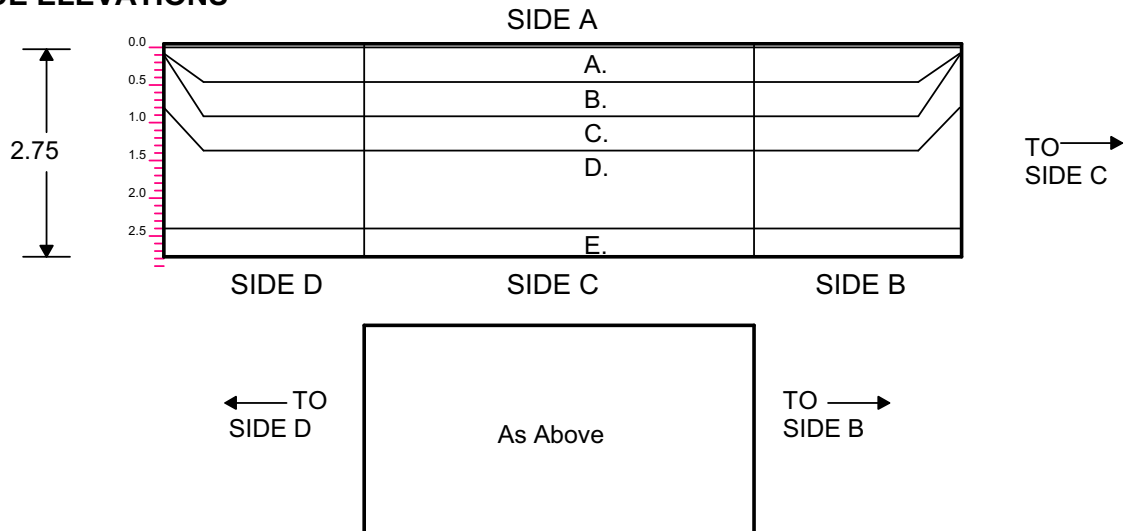
Checked By:

TRAIL PIT NUMBER: TP6  
PIT LOCATION: Former Gas Works  
DATE OF EXCAVATION: 24/04/2003  
GROUND ELEVATION -  
WATER LEVEL: -

### PLAN



### SIDE ELEVATIONS



#### STRATA DESCRIPTION

0 - 0.08m  
A. MADE GROUND: Concrete hardstanding

0.08-0.1m  
B. MADE GROUND: Red brick

0.1-0.8m  
C. MADE GROUND: Soft red reworked clay with abundant sand and gravel (Except Side D - bricks to 0.8m).

0.8-2.75m  
D. Firm red slightly sandy silty CLAY with frequent gravel to small pebbles of sandstone, siltstone and limestone, and some black and orange mottling.  
E. Black clayey PEAT from 2.4m.

#### COMMENTS

NVO throughout.

PID 0.5m: 0 ppm  
PID 2.0m: 0 ppm

Occasional damp pockets from 2.0m.

Refusal at 2.75 m bgl.

#### SAMPLE

\* TP6 0.5m: ICRCL maxi, NRA leachate heavy metals

#### KEY

BGL Below ground level  
\* Sample location  
SO Soil sample  
WA Water sample  
† Soil vapour analysis

#### TRIAL PIT LOG

Job Title: Further Soil and Groundwater Investigation

Location: Whitehaven, Cumbria

Client: Rhodia

**URS**

App'd: Date: 28/04/2003

Drawn : ARC Ref:

Scale: As shown Job No: 44557-033-787

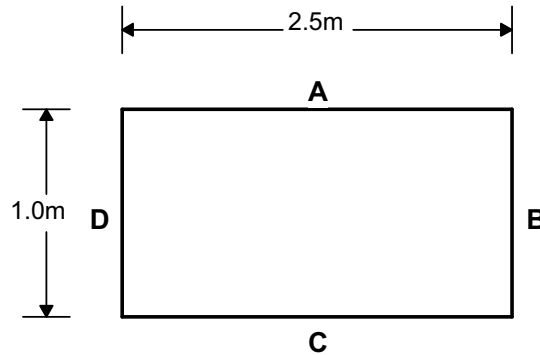
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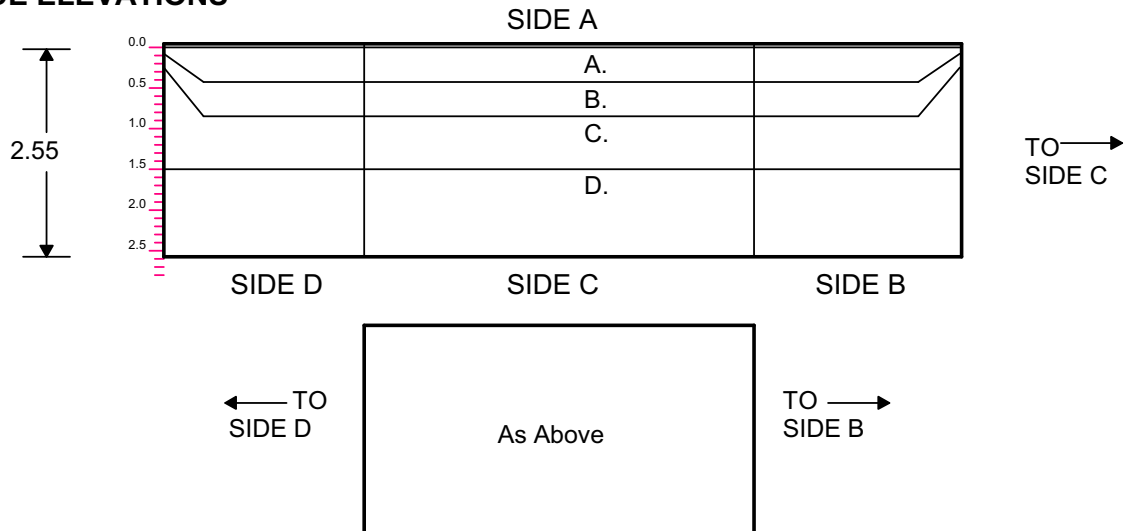
Checked By:

TRAIL PIT NUMBER: TP7  
PIT LOCATION: Former Gas Works  
DATE OF EXCAVATION: 24/04/2003  
GROUND ELEVATION -  
WATER LEVEL: -

### PLAN



### SIDE ELEVATIONS



#### STRATA DESCRIPTION

0 - 0.08m  
A. MADE GROUND: Concrete hardstanding

0.08-0.25m  
B. MADE GROUND: Concrete

0.25-1.5m  
C. MADE GROUND: Soft/loose clay and sand and gravel fill

1.5-2.55m  
D. Soft to firm red silty CLAY with frequent gravel and small rounded to subangular limestone and sandstone pebbles.  
Black clayey peat pockets from 2.3m bgl.

#### COMMENTS

NVO throughout.

PID 0.5m: 0 ppm  
PID 1.0m: 0 ppm  
PID 2.0m: 0 ppm

Occasional damp pockets from 2.0m.

Refusal at 2.55 m bgl.

#### SAMPLE

\* TP7 1.0m: ICRCL maxi

#### KEY

BGL Below ground level  
\* Sample location  
SO Soil sample  
WA Water sample  
† Soil vapour analysis

#### TRIAL PIT LOG

Job Title: Further Soil and Groundwater Investigation

Location: Whitehaven, Cumbria

Client: Rhodia

**URS**

App'd: Date: 28/04/2003

Drawn : ARC Ref:

Scale: As shown Job No: 44557-033-787

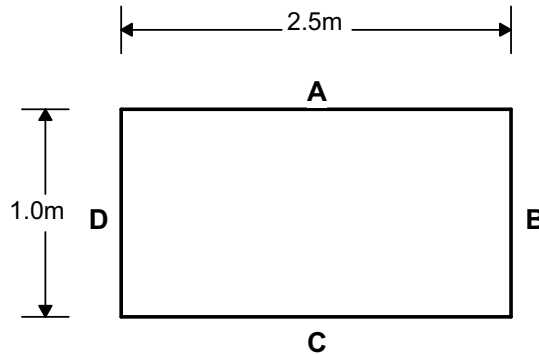
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Logged By : ARC

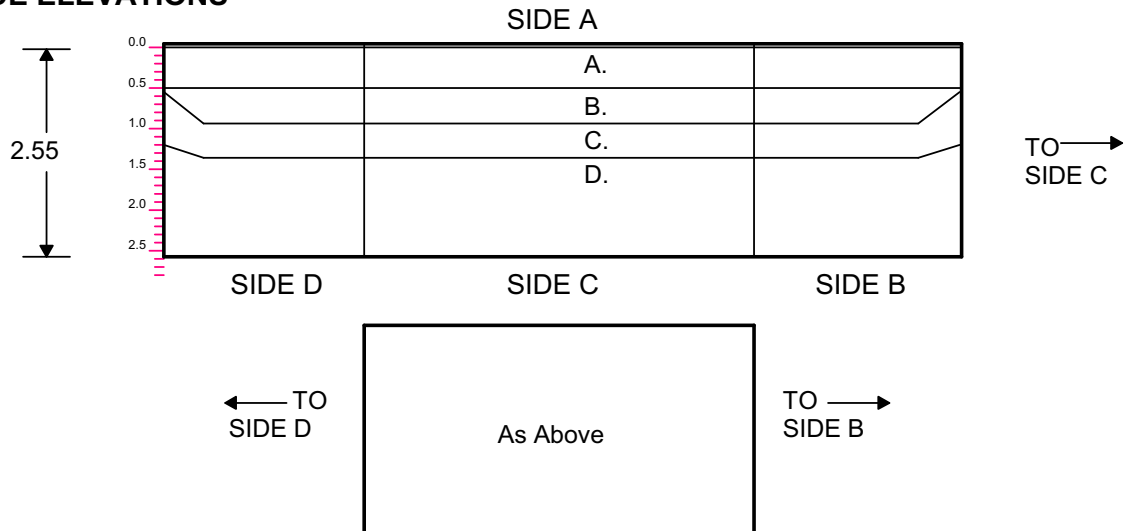
Checked By:

TRAIL PIT NUMBER: TP8  
PIT LOCATION: Former Gas Works  
DATE OF EXCAVATION: 24/04/2003  
GROUND ELEVATION -  
WATER LEVEL: -

### PLAN



### SIDE ELEVATIONS



#### STRATA DESCRIPTION

0 - 0.5m  
A. MADE GROUND: Concrete hardstanding with steel bar reinforcing  
0.5-0.55m  
B. MADE GROUND: Subangular to subrounded large pebble sized limestone hardcore  
0.55-1.2m  
C. MADE GROUND: Sandy gravelly clay fill with broken clay pipe and rare coal. Cast iron pipe lined with viscous black tar encountered at 0.9m  
1.2-2.55m  
D. Firm red silty CLAY with frequent gravel, small limestone and siltstone pebbles, with some mottling

#### COMMENTS

Strong hydrocarbon odour and localised black staining above, around, below cast iron pipe.  
PID 0.6m: 4.6 ppm  
PID 0.9m: 35.6 ppm  
PID 1.5m: 4.3 ppm  
PID 2.0m: 0 ppm  
Refusal 2.55m bgl.

#### SAMPLE

\* TP8 0.6m: ICRCL maxi, NRA leachate heavy metals  
\* TP8 0.9m: VOCs, SVOCs, TPH

#### KEY

BGL Below ground level  
\* Sample location  
SO Soil sample  
WA Water sample  
† Soil vapour analysis

#### TRIAL PIT LOG

Job Title: Further Soil and Groundwater Investigation

Location: Whitehaven, Cumbria

Client: Rhodia

**URS**

App'd: Date: 28/04/2003

Drawn : ARC Ref:

Scale: As shown Job No: 44557-033-787

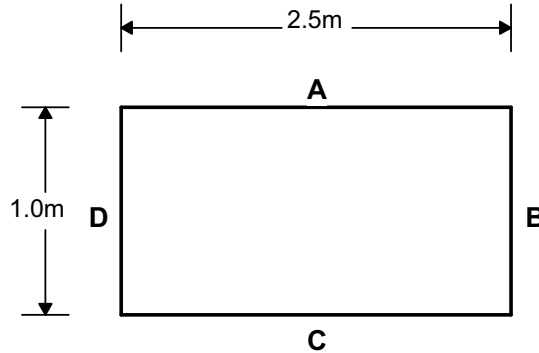
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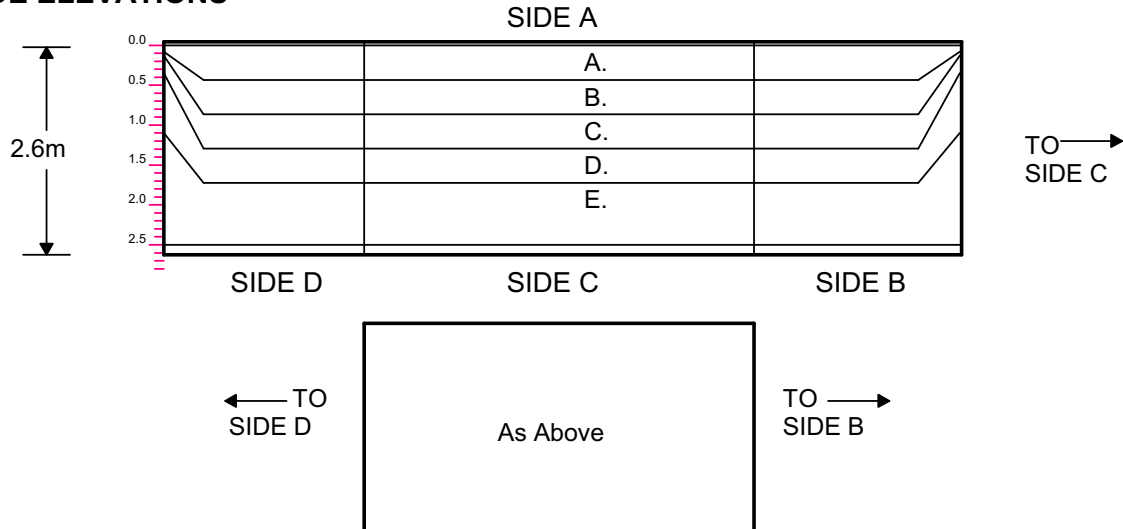
Checked By:

TRAIL PIT NUMBER: TP9  
PIT LOCATION: Former Gas Works  
DATE OF EXCAVATION: 24/04/2003  
GROUND ELEVATION -  
WATER LEVEL: -

### PLAN



### SIDE ELEVATIONS



#### STRATA DESCRIPTION

0 - 0.08m  
A. MADE GROUND: Concrete hardstanding

0.08-0.13m  
B. MADE GROUND: Red brick tiles

0.13-0.35m  
C. MADE GROUND: Concrete

0.35-1.1m  
D. MADE GROUND: Soft to firm red clay and sand and gravel fill

1.1-2.5m  
E. Firm silty CLAY with frequent gravel, small siltstone and limestone pebbles and rare coal

2.5-2.6m  
F. Hard grey DOLOMITE

#### COMMENTS

Dry, NVO throughout

PID 0.5m: 0 ppm  
PID 0.8m: 0 ppm  
PID 2.0m: 0 ppm

Refusal 2.6m bgl.

#### SAMPLE

\* TP9 0.8m: ICRCL maxi

#### KEY

BGL Below ground level  
\* Sample location  
SO Soil sample  
WA Water sample  
† Soil vapour analysis

#### TRIAL PIT LOG

Job Title: Further Soil and Groundwater Investigation

Location: Whitehaven, Cumbria

Client: Rhodia

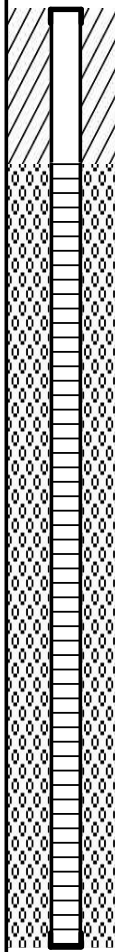




**URS**








App'd: Date: 28/04/2003

Drawn : ARC Ref:

Scale: As shown Job No: 44557-033-787

Drg. Size: A4 TRIAL PIT LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS 165		PAGE 1 OF 1	
	NUMBER	TYPE					DRILLING DATES: 13/9/01		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				
	0.3-0.6m-Asbestos, PCB's		*19.3		0.0	MADE GROUND: Concrete hardstanding.	Dry,NVO			
					0.5	MADE GROUND: Loose light grey medium gravel of limestone hardcore with some light grey coarse sand.				
					0.5	MADE GROUND: Soft dark brown/black mottled light brown/orange reworked clay with some fine gravel, occasional silt and fine sand and rare medium gravel.	Damp,NVO			
					1.0	MADE GROUND: Soft dark brown/black reworked clay with some fine and medium gravel, occasional coarse sand and rare silt.				
					1.0	Soft light brown CLAY with occasional grey, orange and black mottling and fine gravel.	Dry,NVO			
					1.5	becoming soft and silty CLAY.				
					1.5	becoming dark brown.	Dry,NVO			
					2.0	Soft/firm light brown/orange CLAY with occasional grey and light orange mottling and black fine gravel of coal and rare silt and fine sand.				
					2.0	1.75-2.0m-with rare light brown/pink coarse/medium gravel of sandstone.	Very damp, NVO			
					2.5	Very soft light brown/orange CLAY with much medium gravel of sandstone, some silt and fine sand and occasional grey and light grey/orange mottling and black fine gravel of coal.				
			*7.4		2.5	Stiff brown CLAY with occasional orange and grey mottling, black fine gravel of coal and orange fine sand and rare silt, medium rounded gravel of mudstone and sandstone.	Dry,NVO			
					3.0	Borehole completed at 3.0mbgl due obstruction of sandstone.				
					3.5					
4.0										

LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination		 Disturbed Sample	 Undisturbed Sample	Job Title: Phase II Soil & Groundwater Investigation	
		 Headspace Analysis	 Down Borehole Analysis	Location: Whitehaven,Cumbria	
		 Groundwater Table	 Perched Water Table	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

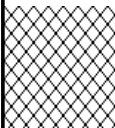

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS 114		PAGE 1 OF 1										
	NUMBER	TYPE					DRILLING DATES: 11/9/01		DRILLING METHODS : Window Sample										
							DRILLER : GRL		BOREHOLE DIAMETER : 50mm										
							LOGGED BY : ML		SCREEN TYPE & DIAM: -										
							CHECKED BY : JM		SCREEN SLOT SIZE: -										
							DESCRIPTION		COMMENTS										
			*0.1		0.0		MADE GROUND: Loose light grey medium gravel with some medium and coarse sand and cemented coarse grained salt and occasional coarse gravel.		Dry,NVO	0.0									
					0.5		Borehole completed at 0.3mbgl due to refusal.			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									
<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination						<b>LEGEND</b> Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table			<b>BOREHOLE LOG</b> Job Title: Phase II Soil & Groundwater Investigation Location: Whitehaven,Cumbria Client: Rhodia <div> </div> <table border="1"> <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	Drawn : AF	Ref: AF/ML/420	Scale: as shown	Job No: 44557-021-420	Drg. Size: A4	BOREHOLE LOG
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 114a		PAGE 1 OF 1	
	NUMBER	TYPE				DRILLING DATES: 26/9/01		DRILLING METHODS : Window Sample	
						DRILLER : GRL		BOREHOLE DIAMETER : 35mm	
		LOGGED BY : ML		SCREEN TYPE & DIAM: -					
		CHECKED BY : JM		SCREEN SLOT SIZE: -					
	0.8-1.0m- Phosphates, TOC	*2.8		0.0		DESCRIPTION		COMMENTS	0.0
						<p>MADE GROUND: Grass covering.</p> <p>MADE GROUND: Loose dark brown/black topsoil with some light brown coarse sand, occasional fine gravel, light brown/orange soft clay and white/turquoise medium gravel of fused, cemented and hard ash and rare light brown coarse gravel of sandstone, red brick fragments (up to 1cm) and white/cream PFA (wind blown, fused, light weight cemented) cobbles (up to 6cm).</p> <p>MADE GROUND: Loose light grey/pink angular coarse gravel of limestone with much cobbles of limestone (up to 6cm), some coarse sand and occasional white/turquoise medium gravel of fused, cemented, hard waste ash and fine gravel.</p> <p>becoming wet with black staining and sulphurous odour.</p> <p>Borehole completed at 1.3mbgl due to obstruction.</p>		<p>Dry,NVO, sulphurous odour</p> <p>Dry,NVO, sulphurous odour</p> <p>Wet,black staining &amp; sulphurous odour</p>	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








  

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: TP524		PAGE 1 of 1		
	NUMBER	TYPE					DRILLING DATES: 1/4/05		DRILLING METHODS : Back hoe excavator		
							DRILLER : Hewden Hire		BOREHOLE DIAMETER : NA		
							LOGGED BY : PM		SCREEN TYPE & DIAM: NA		
							CHECKED BY : LCH		SCREEN SLOT SIZE: NA		
							DESCRIPTION	COMMENTS			
	0.5-0.6m		* 0			0.0 MADE GROUND: Brown, soft, sandy clay topsoil. 0.5 MADE GROUND: Hardcore - pale reddish limestone boulders (10-15cm). 1.0 MADE GROUND: Black, silty fine sand. Frequent pieces of shale. 1.5 MADE GROUND: Firm to soft, brown, sandy clay. 2.0 MADE GROUND: Very soft, black, silty clay. Organic rich. 2.5 MADE GROUND: Tabular boulders (up to 1m diameter) of limestone. 3.0 Very soft, yellow brown silty CLAY.	Dry, NVO           Moist, NVO           Wet, NVO	0.0           0.5           1.0           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  No groundwater encountered						LEGEND Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table		BOREHOLE LOG Job Title: Phase II Investigations and Environmental assessments. Location: The Former Albright and Wilson Works, Whitehaven, Cumbria Client: Rhodia <div> <div> <div>App'd: NA</div> <div>Date: 07/04/05</div> </div> <div> <div>Drawn : NA</div> <div>Ref: NA</div> </div> <div> <div>Scale: NA</div> <div>Job No: 44319623</div> </div> <div> <div>Drg. Size: NA</div> <div>BOREHOLE LOG</div> </div> </div>			

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: WS419		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 31/3/05		DRILLING METHODS : Window sampler	
							DRILLER : GPS		BOREHOLE DIAMETER : 100mm	
							LOGGED BY : PR		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY : LCH		SCREEN SLOT SIZE: 2mm	
							DESCRIPTION	COMMENTS		
				0.0		MADE GROUND: Dark brown sandy silt with occasional fine-medium gravel of sandstone, slag and brick.	Dry, NVO		0.0	
			0.5	MADE GROUND: Dark brown organic sandy silt with coarse gravel of clinker and brick.		0.5				
				MADE GROUND: Brown/black clayey silt with ash and occasional gravel of sandstone.						
				Refusal at 0.5m.						
				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	

<b>LOCATION / NOTES:</b> NVO = No visual or olfactory evidence of contamination  No groundwater encountered	<b>LEGEND</b>  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	<b>BOREHOLE LOG</b> Job Title: Phase II Investigations and Environmental assessments. Location: The Former Albright and Wilson Works, Whitehaven, Cumbria Client: Rhodia			
			App'd: NA	Date: 07/04/05	
			Drawn : NA	Ref: NA	
			Scale: NA	Job No: 44319623	
			Drg. Size: NA	BOREHOLE LOG	