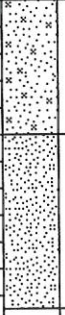


BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB028S1		PAGE 1 of 2		
	NUMBER	TYPE					DRILLING DATES: 15/01/02		DRILLING METHODS : Hydraulic Percussive		
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm		
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm		
							CHECKED BY :		SCREEN SLOT SIZE: 1mm		
	DSB028 1.0m				0.0	Concrete. MADE GROUND			0.0		
					0.5	Loose, coarse GRAVEL and cobbles of brick fragments with ash. MADE GROUND		Very strong solvent and HC odour	0.5		
					1.0	Soft, grey-brown, very sandy SILT with occasional to frequent coarse, rounded gravel and small rounded cobbles.		Very strong HC and solvent odour	1.0		
					1.5	Brown from 1.5m		Wet from 1.5m.	1.5		
					2.0			Damp. Slight-moderate HC and solvent odour	2.0		
					2.5	Interbedded layers of silty SAND with GRAVEL from 2.5m			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						LEGEND Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table		BOREHOLE LOG Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery App'd: _____ Date: 18/09/2002 Drawn : SS _____ Ref: _____ Scale: As scale _____ Job No: 39991-022 Drg. Size: A4 _____ BOREHOLE LOG			

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB028S1		PAGE 2 of 2	
	NUMBER	TYPE					DRILLING DATES: 15/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
	DSB028 5.2m				5.5				Strong solvent odour	5.5
	DSB028 6.15m				6.0		Loose, brown, very silty SAND with abundant coarse, rounded gravel			6.0
					6.5	End of Borehole				6.5
					7.0					7.0
					7.5					7.5
					8.0					8.0
					8.5					8.5
					9.0					9.0
					9.5					9.5
					10.0					10.0

LOCATION / NOTES:

NVO = No visual or olfactory evidence

LEGEND

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

BOREHOLE LOG

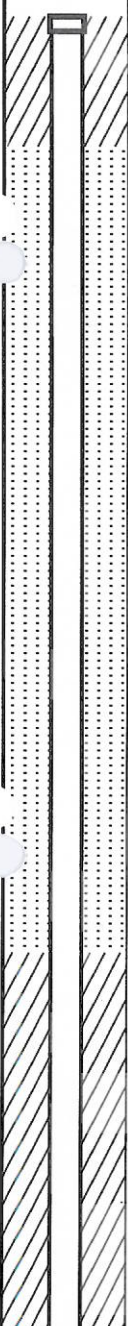
Job Title: DiMe Investigation

Location: BP Llandarcy Refinery

Client: BP Oil Llandarcy Refinery



App'd:	Date: 18/09/2002
Drawn : SS	Ref:
Scale: As scale	Job No: 39991-022
Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB027S2		PAGE 1 of 2	
	NUMBER	TYPE					DRILLING DATES: 15/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
							DESCRIPTION	COMMENTS		
	DSB027 2.0m		*182		0.0	Concrete. MADE GROUND		Moderate solvent odour and sheen	0.0	
					0.5	Loose gravel of ash, clinker and brick. MADE GROUND			0.5	
					1.0				1.0	
					1.5	Soft, grey-brown sandy SILT with frequent rounded, coarse gravel			1.5	
	DSB027 4.0m		*216		2.0	Loose COBBLES and rounded fine-med GRAVEL with med. sand		Wet. Strong solvent odour	2.0	
					2.5	Soft, grey, very sandy SILT with frequent coarse gravel and cobbles.			2.5	
					3.0	Grades to brown colour from 3.0m		Wet. Strong solvent odour.	3.0	
					3.5				3.5	
					4.0			Wet. Mod-strong solvent odour	4.0	
					4.5	With flat, angular sandstone from 4.5-4.6m			4.5	
					Very silty sand from 4.8m					
					Becoming dense from 5.5m					
				5.0				5.0		

LOCATION / NOTES:

NVO = No visual or olfactory evidence

LEGEND

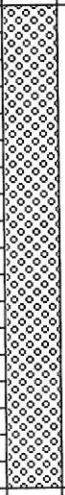
-  Disturbed Sample
-  Undisturbed Sample
-  Headspace Analysis
-  Down Borehole Analysis
-  Groundwater Table
-  Perched Water Table

BOREHOLE LOG

Job Title: DiMe Investigation
Location: BP Llandarcy Refinery
Client: BP Oil Llandarcy Refinery

URS

App'd:	Date: 18/09/2002
Drawn : SS	Ref:
Scale: As scale	Job No: 39991-022
Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB027S2		PAGE 2 of 2		
	NUMBER	TYPE					DRILLING DATES: 15/01/02		DRILLING METHODS : Hydraulic Percussive		
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm		
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm		
							CHECKED BY :		SCREEN SLOT SIZE: 1mm		
	DSB027 5.8m		*35.2		5.5				COMMENTS	Wet	5.5
			*3300		6.0						
			*3552		6.5						6.5
	DSB027 6.8m		*3667		7.0		End of Borehole				7.0
					7.5						7.5
					8.0						8.0
					8.5						8.5
					9.0						9.0
					9.5						9.5
					10.0						10.0

LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence	 Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery 	
		App'd:	Date: 18/09/2002
		Drawn : SS	Ref:
		Scale: As scale	Job No: 39991-022
		Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB027S1		PAGE 1 of 2		
	NUMBER	TYPE					DRILLING DATES: 15/01/02		DRILLING METHODS : Hydraulic Percussive		
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm		
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm		
							CHECKED BY :		SCREEN SLOT SIZE: 1mm		
DESCRIPTION							COMMENTS				
	DSB027 2.0m	*182			0.0	Concrete. MADE GROUND	Moderate solvent odour and sheen	0.0			
					0.5	Loose gravel of ash, clinker and brick. MADE GROUND		0.5			
					1.0			1.0			
								1.5	Soft, grey-brown sandy SILT with frequent rounded, coarse gravel	Wet. Strong solvent odour	1.5
					2.0	Loose COBBLES and rounded fine-med GRAVEL with med. sand	2.0				
					2.5	Soft, grey, very sandy SILT with frequent coarse gravel and cobbles.	2.5				
			3.0	Grades to brown colour from 3.0m	Wet. Strong solvent odour.	3.0					
3.5		3.5									
4.0		4.0									
	DSB027 4.0m	*216			4.5	With flat, angular sandstone from 4.5-4.6m	Wet. Mod-strong solvent odour	4.5			
5.0					Very silty sand from 4.8m	5.0					
					Becoming dense from 5.5m						

LOCATION / NOTES:

NVO = No visual or olfactory evidence

LEGEND

- [.] Disturbed Sample
- Undisturbed Sample
- * Headspace Analysis
- † Down Borehole Analysis
- Groundwater Table
- Perched Water Table

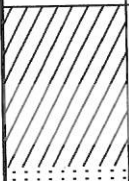
BOREHOLE LOG

Job Title: DiMe Investigation

Location: BP Llandarcy Refinery

Client: BP Oil Llandarcy Refinery

App'd:	Date: 18/09/2002
Drawn : SS	Ref:
Scale: As scale	Job No: 39991-022
Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB027S1		PAGE 2 of 2		
	NUMBER	TYPE					DRILLING DATES: 15/01/02		DRILLING METHODS : Hydraulic Percussive		
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm		
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm		
							CHECKED BY :		SCREEN SLOT SIZE: 1mm		
 	DSB027 5.8m		*35.2		5.5				COMMENTS	Wet	5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0
	DSB027 6.8m		*3300 *3552 *3667		6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0						

LOCATION / NOTES: NVO = No visual or olfactory evidence		LEGEND  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table		BOREHOLE LOG Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery 				App'd: Drawn : SS Scale: As scale Drg. Size: A4	Date: 18/09/2002 Ref: Job No: 39991-022 BOREHOLE LOG
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BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB026S2		PAGE 1 of 2				
	NUMBER	TYPE					DRILLING DATES: 14/01/02		DRILLING METHODS : Hydraulic Percussive				
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm				
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm				
							CHECKED BY :		SCREEN SLOT SIZE: 1mm				
						DESCRIPTION	COMMENTS						
						Concrete	NVO	0.0					
						Loose MADE GROUND comprised of crushed brick and cobbles		NVO	0.5				
						Loose, fine-coarse, angular GRAVEL			0.5				
						Soft to firm, black SILT	NVO	1.0					
						Soft to firm, fine, yellow-brown/mottled blue, sandy SILT		1.0					
						*21.9	NVC, slight solvent odour	1.5					
						*3.4		1.5					
						*40.8		2.0					
						With dense grey sand from 1.7-1.8m.						Damp. NVO	2.0
						Brown from 1.9m, with frequent med-coarse gravel						Sand - solvent odour	2.5
						*4.7	2.5						
						*24.0	3.0						
						*10.0	3.5	Wet. NVO	3.5				
						*10.7	4.0						
						*1.5	4.5						
*0.7	5.0	Wet. NVO	4.0										
Loose, brown-grey, silty SAND with occasional coarse gravel and cobbles.						4.5							
Very silty from 4.3m						4.5							
With occasional flat gravel of lithified sandstone from 4.6-4.8m						Dense from 6.5m	5.0						
Varying silt from 5.0m.							5.0						
							5.0						

LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence	Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table	Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery	
			App'd: _____ Date: 20/09/2002 Drawn : SS Ref: _____ Scale: As scale Job No: 39991-022 Drg. Size: A4 BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB026S2		PAGE 2 of 2	
	NUMBER	TYPE					DRILLING DATES: 14/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
									COMMENTS	
			*1.1		5.5					
			*0.8		6.0				Wet. NVO	
					6.5					
					7.0					
					7.5					
					8.0					
					8.5					
					9.0					
					9.5					
					10.0					
						End of Borehole				

LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence	Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table	Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery	
			App'd: _____ Date: 20/09/2002 Drawn : SS Ref: _____ Scale: As scale Job No: 39991-022 Drg. Size: A4 BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB026S1		PAGE 1 of 2	
	NUMBER	TYPE					DRILLING DATES: 14/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
					0.0	Concrete				0.0
					0.5	Loose MADE GROUND comprised of crushed brick and cobbles				
					0.5	Loose, fine-coarse, angular GRAVEL		NVO		0.5
					0.5	Soft to firm, black SILT				
					1.0	Soft to firm, fine, yellow-brown/mottled blue, sandy SILT		NVO		1.0
			*21.9		1.5			NVC, slight solvent odour		1.5
			*3.4		2.0	With dense grey sand from 1.7-1.8m.		Damp. NVO		2.0
			*40.8		2.5	Brown from 1.9m, with frequent med-coarse gravel				2.5
			*4.7		3.0	Slightly silty SAND from 2.3m, with some gravel		Sand - solvent odour		3.0
			*24.0		3.5			Wet. NVO		3.5
		*10.0		4.0	Loose, brown-grey, silty SAND with occasional coarse gravel and cobbles.				4.0	
		*10.7		4.5	Very silty from 4.3m		Wet. NVO		4.5	
		*1.5		5.0	With occasional flat gravel of lithified sandstone from 4.6-4.8m				5.0	
		*0.7		5.0	Varying silt from 5.0m.				5.0	
				5.0	Dense from 6.5m				5.0	

LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
NVO = No visual or olfactory evidence		Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table		Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery 	
		App'd: _____ Date: 20/09/2002 Drawn: SS _____ Ref: _____ Scale: As scale _____ Job No: 39991-022 Drg. Size: A4 _____ BOREHOLE LOG			

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB026S1		PAGE 2 of 2	
	NUMBER	TYPE					DRILLING DATES: 14/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
 			*1.1		5.5				COMMENTS Wet. NVO	5.5
			*0.8		6.0					6.0
					6.5		End of Borehole			6.5
					7.0					7.0
					7.5					7.5
					8.0					8.0
					8.5					8.5
					9.0					9.0
					9.5					9.5
					10.0					10.0

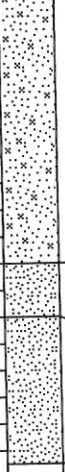
LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence	 Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery	
			App'd: _____ Date: 20/09/2002 Drawn : SS Ref: _____ Scale: As scale Job No: 39991-022 Drg. Size: A4 BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB025S2		PAGE 1 of 2	
	NUMBER	TYPE					DRILLING DATES: 11/01/02-14/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
DESCRIPTION							COMMENTS			
	DDMW 01-2.0		*16.6	0.0		Loose to dense ground of clinker with ash and coarse, angular cobbles. (MG)	Moderate-strong solvent odour wet 0-0.2m	0.0		
			*9.1	0.5		Soft, brown 'organic' silt		0.5		
			*4.6	1.0		Soft to firm grey, mottled brown clayey silt. Slightly sandy from 1.0m	NVC NCG Feint solvent odour 1.0m	1.0		
						Increasing sand to sandy silt from 1.3m and coarse rounded gravel from 1.4m	Damp 1.5m			
			*7.6	1.5			Moderate odour damp - wet	1.5		
			*10.1	2.0				2.0		
			*14.2	2.5		Soft, light brown very sandy silt with occasional medium-coarse rounded gravel	Moderate odour, damp-wet (iridescent?) Wet from 2.5m	2.5		
						Loose, brown, medium sand	Irridescence. Strong solvent odour. Wet			
			*36	3.0		Loose brown, mottled grey-blue very silty fine-medium sand with occasional-frequent medium-coarse rounded gravel.	Moderate-Strong solvent. Wet	3.0		
			*545	3.5		Brown from 3.5m with patches of fine silty-clay. Gravel frequent from 4.0m with sandy layers becoming sandy silt.		3.5		
		Dense from 5.3m								
		Coring 5.9 - 6.1 (cobble)								
		*247	4.0					4.0		
		*66.0	4.5					4.5		
		*47.4	5.0					5.0		

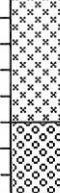
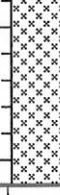
LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence	Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table	Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery	
			App'd: _____ Date: July 2002 Drawn : SS Ref: _____ Scale: As scale Job No: 39991-022 Drg. Size: A4 BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB025S2		PAGE 2 of 2	
	NUMBER	TYPE					DRILLING DATES: 11/01/02-14/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
		CHECKED BY :		SCREEN SLOT SIZE: 1mm						
			*3.9		5.5				Odour increases from 5.30m	5.5
			*4.9		6.0		Loose, medium to coarse sand with frequent rounded medium-coarse gravel Dense very silty sand with frequent cobbles.	Damp-Wet NVC	6.0	
					6.5					6.5
					7.0			End of Borehole		7.0
					7.5					7.5
					8.0					8.0
					8.5					8.5
					9.0					9.0
					9.5					9.5
					10.0					10.0

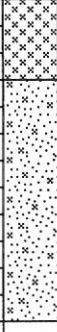
LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence	Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table	Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery	
			App'd: _____ Date: July 2002 Drawn : SS Ref: _____ Scale: As scale Job No: 39991-022 Drg. Size: A4 BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB025S1		PAGE 2 of 2	
	NUMBER	TYPE					DRILLING DATES: 11/01/02-14/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
		CHECKED BY :		SCREEN SLOT SIZE: 1mm						
 			*3.9		5.5				Odour increases from 5.30m	5.5
			*4.9		6.0		Loose, medium to coarse sand with frequent rounded medium-coarse gravel Dense very silty sand with frequent cobbles.	Damp-Wet NVC	6.0	
					6.5					6.5
					7.0					7.0
					7.5					7.5
					8.0					8.0
					8.5					8.5
					9.0					9.0
					9.5					9.5
					10.0					10.0
End of Borehole										

LOCATION / NOTES:	LEGEND	BOREHOLE LOG									
NVO = No visual or olfactory evidence	 Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery									
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App'd:	Date: July 2002										
Drawn : SS	Ref:										
Scale: As scale	Job No: 39991-022										
Org. Size: A4	BOREHOLE LOG										

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB024S2		PAGE 1 of 2	
	NUMBER	TYPE					DRILLING DATES: 23/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
							DESCRIPTION	COMMENTS		
	DDMW02 -1.5m				0.0		Loose, black angular fine-medium gravel of ash/clinker	and Solvent odour	0.0	
							Loose angular platy coarse gravel with silt. Soft grey mottled-brown silt with plant remains	Strong odour	0.5	
								Decreasing solvent and H/C odour	1.0	
								Soft, sandy clayey grey silt with frequent rounded coarse gravel	Increasing solvent odour.	2.0
							DDMW02 -3.0m			
					2.5					
					3.0			Sheen. Very strong solvent odour from 2.6. Wet	3.0	
								Saturated 3.2-3.9	3.5	
					3.5		Loose, grey, silty and sandy, fine to coarse, sub-angular to sub-rounded gravel	Saturated. Very strong solvent odour.	4.0	
							Soft to firm grey-brown, slightly sandy silt with occasional medium, sub-rounded gravel. Grades to brown from 5.0m Sandy from 5.2m	Odour rapidly decreases. No odour from 4.3m. Damp	4.5	
					4.0					
					4.5					
					5.0					

LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
NVO = No visual or olfactory evidence		 Disturbed Sample		Job Title: DiMe Investigation	
		 Undisturbed Sample		Location: BP Llandarcy Refinery	
		 Headspace Analysis		Client: BP Oil Llandarcy Refinery	
		 Down Borehole Analysis			
		 Groundwater Table			
		 Perched Water Table			
				App'd:	Date: July 2002
				Drawn :	Ref:
				Scale:	Job No: 39991-022
				Drg. Size:	BOREHOLE LOG

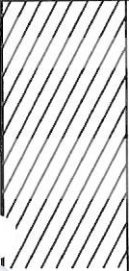
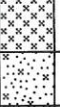
BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB024S2		PAGE 2 of 2	
	NUMBER	TYPE					DRILLING DATES: 23/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
	DDMW02 -5.5m			5.5		Dense, brown silty sand with occasional medium, sub-rounded gravel		COMMENTS Damp-Wet NVC. Dry-damp	5.5	
				6.0		End of Borehole				6.0
				6.5					6.5	
				7.0						
				7.5					7.5	
				8.0						
				8.5					8.5	
				9.0						
				9.5					9.5	
				10.0						

LOCATION / NOTES: NVO = No visual or olfactory evidence		LEGEND  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table		BOREHOLE LOG Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery 				App'd: Drawn : Scale: Drg. Size:	Date: July 2002 Ref: Job No: 39991-022 BOREHOLE LOG
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BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB024S1		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 23/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
							DESCRIPTION	COMMENTS		
	DDMW02	-1.5m			0.0		Loose, black angular fine-medium gravel of ash/clinker	Wet. Strong H/C and Solvent odour	0.0	
					0.5			Strong odour	0.5	
					1.0		Loose angular platy coarse gravel with silt. Soft grey mottled-brown silt with plant remains	Decreasing solvent and H/C odour	1.0	
					1.5				1.5	
					2.0		Soft, sandy clayey grey silt with frequent rounded coarse gravel	Increasing solvent odour	2.0	
					2.5				2.5	
					3.0			Sheen very strong solvent odour from 2.6m	3.0	
					3.5		Loose, grey, silty and sandy, fine to coarse, sub-angular to sub-rounded gravel	Wet. Saturated 3.2-3.9	3.5	
					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	Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table	Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery	
			App'd: _____ Date: July 2002 Drawn : _____ Ref: _____ Scale: _____ Job No: 39991-022 Drg. Size: _____ BOREHOLE LOG

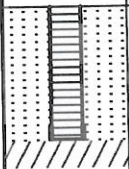
BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB023S2		PAGE 1 of 2	
	NUMBER	TYPE					DRILLING DATES: 17/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
	DSB023 3.5m		*543 							

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB023S2		PAGE 2 of 2	
	NUMBER	TYPE					DRILLING DATES: 17/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
	DSB023 5.2m				5.5				Damp to wet. Slight solvent odour?	5.5
							Soft, brown/orange-brown, very sandy SILT			
							Loose to dense, fine-coarse rounded GRAVEL			
							End of Borehole			
					6.0					6.0
					6.5					6.5
					7.0					7.0
					7.5					7.5
					8.0					8.0
					8.5					8.5
					9.0					9.0
					9.5					9.5
					10.0					10.0

LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence	 Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery 	
		App'd:	Date: 18/09/2002
		Drawn : SS	Ref:
		Scale: As scale	Job No: 39991-022
		Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB022S2		PAGE 1 of 2			
	NUMBER	TYPE					DRILLING DATES: 21/01/02		DRILLING METHODS : Hydraulic Percussive			
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm			
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm			
							CHECKED BY :		SCREEN SLOT SIZE: 1mm			
							DESCRIPTION	COMMENTS				
	DSB022 3.4m						0.0	Loose, brown, medium SAND. MADE GROUND		0.0		
							0.5				Wet. Slight solvent odour from 0.5m	0.5
							1.0				Strong solvent odour from 0.8m	1.0
							1.5					1.5
							2.0					2.0
							2.5					2.5
							3.0				Wet. Strong HC/solvent odour. Irridescence.	3.0
							3.5				Wet. Strong odour	3.5
							4.0				Solvent odour. Damp-wet from 3.7m	4.0
							4.5					4.5
5.0					5.0							

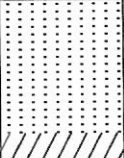
LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
NVO = No visual or olfactory evidence		Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table		Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery 	
		App'd: _____ Date: 18/09/2002 Drawn : SS _____ Ref: _____ Scale: As scale _____ Job No: 39991-022 Drg. Size: A4 _____ BOREHOLE LOG			

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB022S2		PAGE 2 of 2	
	NUMBER	TYPE					DRILLING DATES: 21/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
	DSB022 5.4m				5.5 5.6 5.7 5.8 5.9 6.0 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 7.0 7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2 8.3 8.4 8.5 8.6 8.7 8.8 8.9 9.0 9.1 9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9 10.0		Dense COBBLES and coarse, rounded GRAVELS.		COMMENTS	5.5 5.6 5.7 5.8 5.9 6.0 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 7.0 7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2 8.3 8.4 8.5 8.6 8.7 8.8 8.9 9.0 9.1 9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9 10.0
							End of Borehole			

LOCATION / NOTES: NVO = No visual or olfactory evidence		LEGEND  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table		BOREHOLE LOG Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery 				App'd: _____ Date: 18/09/2002 Drawn : SS Ref: _____ Scale: As scale Job No: 39991-022 Drg. Size: A4 BOREHOLE LOG	
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BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB022S1		PAGE 1 of 2	
	NUMBER	TYPE					DRILLING DATES: 21/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
							DESCRIPTION	COMMENTS		
	DSB022	3.4m			0.0		Loose, brown, medium SAND. MADE GROUND	Wet. Slight solvent odour from 0.5m	0.0	
					0.5				0.5	
					1.0		Loose, fine to coarse, angular gravel of clinker. MADE GROUND	Strong solvent odour from 0.8m	1.0	
					1.5				1.5	
					2.0			2.0		
					2.5			2.5		
					3.0		Soft, brown sandy SILT. Stained grey-black.	Wet. Strong HC/solvent odour. Irridescence.	3.0	
					3.5		Loose, grey, slightly silty, sandy, fine to medium, sub rounded GRAVEL		3.5	
					4.0		Soft, brown, sandy SILT with frequent gravel (sub-rounded, medium) from 3.7m	Wet. Strong odour	4.0	
					4.5		Grading to gravelly, silty SAND deom 4.1m		4.5	
		5.0	Dense from 4.8m	Solvent odour. Damp-wet from 3.7m	5.0					

LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence	Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table	Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery	
			App'd: _____ Date: 18/09/2002 Drawn : SS Ref: _____ Scale: As scale Job No: 39991-022 Drg. Size: A4 BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB022S1		PAGE 2 of 2	
	NUMBER	TYPE					DRILLING DATES: 21/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
	DSB022				5.5		Dense COBBLES and coarse, rounded GRAVELS.		COMMENTS	5.5
							End of Borehole			
					6.0					6.0
					6.5					6.5
					7.0					7.0
					7.5					7.5
					8.0					8.0
					8.5					8.5
					9.0					9.0
					9.5					9.5
					10.0					10.0

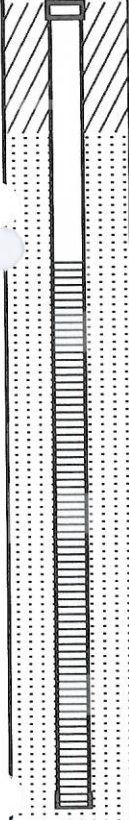
LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence	 Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery 	
		App'd:	Date: 18/09/2002
		Drawn : SS	Ref:
		Scale: As scale	Job No: 39991-022
		Org. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB021S2		PAGE 1 of 2	
	NUMBER	TYPE					DRILLING DATES: 21/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
						DESCRIPTION	COMMENTS			
						Very loose, medium brown SAND, stained grey from 0.5m. MADE GROUND	Slight odour from surface	0.0		
							Very strong solvent odour. Wet	0.5		
						Cobbles with slag and clinker. MADE GROUND	Strong solvent odour	1.0		
						Loose to dense, fine to coarse MADE GROUND of clinker.		1.5		
						Soft to firm, brown (stained grey) sandy SILT with medium angular gravel.	Damp-wet. Solvent odour	2.5		
						With loose cobbles from 2.5m		3.0		
						Soft, brown, very sandy SILT with frequent med-coarse rounded gravel and fine angular gravel.	Wet. Slight odour.	3.5		
						Very firm from 4.6m	Odour decreases with depth	4.5		
								5.0		

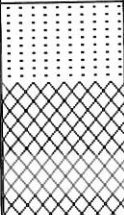
LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence	☐ Disturbed Sample ■ Undisturbed Sample ✱ Headspace Analysis ⊕ Down Borehole Analysis — Groundwater Table — Perched Water Table	Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery	
		URS	App'd: _____ Date: 18/09/2002 Drawn : SS Ref: _____ Scale: As scale Job No: 39991-022 Drg. Size: A4 BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB021S2		PAGE 2 of 2	
	NUMBER	TYPE					DRILLING DATES: 21/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
							COMMENTS			
								5.5		
							Loose, silty, fine-med rounded and sub-rounded GRAVEL			
							End of Borehole	6.0		
								6.5		
								7.0		
								7.5		
								8.0		
								8.5		
								9.0		
								9.5		
								10.0		

LOCATION / NOTES:		LEGEND		BOREHOLE LOG	
NVO = No visual or olfactory evidence		Disturbed Sample Undisturbed Sample Headspace Analysis Down Borehole Analysis Groundwater Table Perched Water Table		Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery	
				App'd: _____ Date: 18/09/2002 Drawn : SS _____ Ref: _____ Scale: As scale _____ Job No: 39991-022 Drg. Size: A4 _____ BOREHOLE LOG	

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB021S1		PAGE 1 of 2	
	NUMBER	TYPE					DRILLING DATES: 21/01/02		DRILLING METHODS : Hydraulic Percussive	
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm	
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm	
							CHECKED BY :		SCREEN SLOT SIZE: 1mm	
DESCRIPTION							COMMENTS			
					0.0	Very loose, medium brown SAND, stained grey from 0.5m. MADE GROUND	Slight odour from surface	0.0		
			*24.5		0.5		Very strong solvent odour. Wet	0.5		
			*559		1.0	Cobbles with slag and clinker. MADE GROUND	Strong solvent odour	1.0		
			*540		2.0	Loose to dense, fine to coarse MADE GROUND of clinker.		2.0		
			*546		2.5	Soft to firm, brown (stained grey) sandy SILT with medium angular gravel. With loose cobbles from 2.5m	Damp-wet. Solvent odour	2.5		
		*434		3.5	Soft, brown, very sandy SILT with frequent med-coarse rounded gravel and fine angular gravel.	Wet. Slight odour.	3.5			
		*1049		4.5	Very firm from 4.6m	Odour decreases with depth	4.5			
				5.0				5.0		

LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence	 Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery 	
		App'd:	Date: 18/09/2002
		Drawn : SS	Ref:
		Scale: As scale	Job No: 39991-022
		Drg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: DSB021S1		PAGE 2 of 2		
	NUMBER	TYPE					DRILLING DATES: 21/01/02		DRILLING METHODS : Hydraulic Percussive		
							DRILLER : Geotechnical Engineering		BOREHOLE DIAMETER : 125mm		
							LOGGED BY : PEW		SCREEN TYPE & DIAM: HDPE 50mm		
							CHECKED BY :		SCREEN SLOT SIZE: 1mm		
			*419		1		Loose, silty, fine-med rounded and sub-rounded GRAVEL		COMMENTS	5.5	
					5.5		End of Borehole			6.0	
					6.0						6.0
					6.5						6.5
					7.0						7.0
					7.5						7.5
					8.0						8.0
					8.5						8.5
					9.0						9.0
					9.5						9.5
					10.0						10.0

LOCATION / NOTES:	LEGEND	BOREHOLE LOG									
NVO = No visual or olfactory evidence	 Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	Job Title: DiMe Investigation Location: BP Llandarcy Refinery Client: BP Oil Llandarcy Refinery									
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App'd:	Date: 18/09/2002										
Drawn : SS	Ref:										
Scale: As scale	Job No: 39991-022										
Drg. Size: A4	BOREHOLE LOG										