



Photo 5: Looking west over the former production area. Concrete structures still present with coal tar staining.



Photo 6: Blue staining likely to be associated with cyanide impact.



Photo 7: Retaining wall with evidence of coal tar staining located in the west of the Production Area



Photo 8: Mound of Silica brick deposited west of the remaining tower.



Photo 9: Looking north from the Production Area over the Coal Stockyard



Photo 10: Coal Stockyard looking North towards Production Area



Photo 11: Looking north in Coal Stockyard along the western boundary denoted by a tyre wall.



Photo 12: Northern area of the Coal Stockyard with stockpiled material. Concrete rings are location of manholes for a sewer.



Photo 13: Engineering Yard east of the Coal Stockyard



Photo 14: Bunded area to the east of the Coal Stockyard.



Photo 15: Coal Stockyard looking west from the east with thin coal breeze surfacing.



Photo 16: TP18 in CHP area showing reinforced concrete



Photo 17: TP21 in Production Area showing blue stained soils (cyanide)



Photo 18: TP24 showing identified tunnels



Photo 19: TP24 showing identified sump.



Photo 20: TP42 showing Coal tar seeping out of concrete



Photo 21: TP49 showing concrete base and side with large diameter pipe



Photo 22: Trench 1 with location of historic underground tunnel.



Photo 23: TP77 potential railway tunnel.



Photo 24: TP70 showing concrete wall



Photo 25: TP81 showing concrete and brick obstructions



Photo 26: TP85 showing concrete obstruction.



Photo 27: Ground conditions in CHP showing shallow bedrock (sandstone)



Photo 28: Tar impacted water in the Production Area



Photo 29: TP28 in Production Area showing underground infrastructure



Photo 30: TP37 in Production Area showing coal tar impacted soils above grey sandstone bedrock



Photo 31: TP44 in Production Area showing shallow tar impact above bedrock.



Photo 32: TP42 showing concrete obstructions



Photo 33: TP61 Showing underground infrastructure in Coal Stockyard



Photo 34: Coal breeze material above sandstone bedrock



Photo 35: TP72 in the Southern Area in mudstone



Photo 36: BH19-02 initial TP showing coal tar impact and infrastructure in pit.

Appendix C

Borehole and Trial Pit Logs

Contract Name: Monckton Production Facility			Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: WS7
Contract Number: G151311	Date Started: 06/05/2015	Date Completed: 06/05/2015	Logged: IMC	Checked: AP	Status: PRELIM	
Easting: 437449.2	Northing: 411838.6	Ground Level: 61.99m (OD)	Plant Used: Competitor Dart 351		Print Date: 17/08/2015	
						Sheet 1 of 1
						Scale: 1:50

Weather:		Rig Crew: K.Dane, G.Griffiths		Termination:		351		17/06/2015		1.50	
Progress		Samples & In Situ Testing				SPT Hammer: N/R, Energy Ratio: N/R					
Window Run	Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description		Groundwater		
	0.30	ES1		61.89	0.10		MADE GROUND - Crushed, compacted dark grey/black coal, ash and coke fill.				
	0.50	D2		61.59	(0.30)		MADE GROUND - Reworked sandy gravelly clay fill with embedded brick, coal, coke and ash.				
	0.70	3			0.40		Orangish brown firm sandy CLAY.				
	1.00	D5	SPT(S) 1.00m, N=25						1		
	1.00 - 1.45	SPTLS 4	(5,5/5,6,7,7)								
	1.50	ES6									
	2.00	D8	SPT(S) 2.00m, N=29								
	2.00 - 2.45	SPTLS 7	(6,7/7,7,7,8)		(3.90)						
	2.50	ES9							2		
	3.00	D11	SPT(S) 3.00m, N=41								
	3.00 - 3.45	SPTLS 10	(8,8/9,10,10,12)								
	3.50	ES12									
	4.00	D14	SPT(S) 4.00m, 50 (24 for 95mm/50 for 265mm)								
	4.00 - 4.45	SPTLS 13		57.69	4.30		Stiff, orangish brown mottled grey slightly sandy CLAY.		4		
	4.50	ES15			(0.70)						
				56.99	5.00	End of Borehole at 5.000m		5			
								6			
								7			
								8			
								9			
								10			

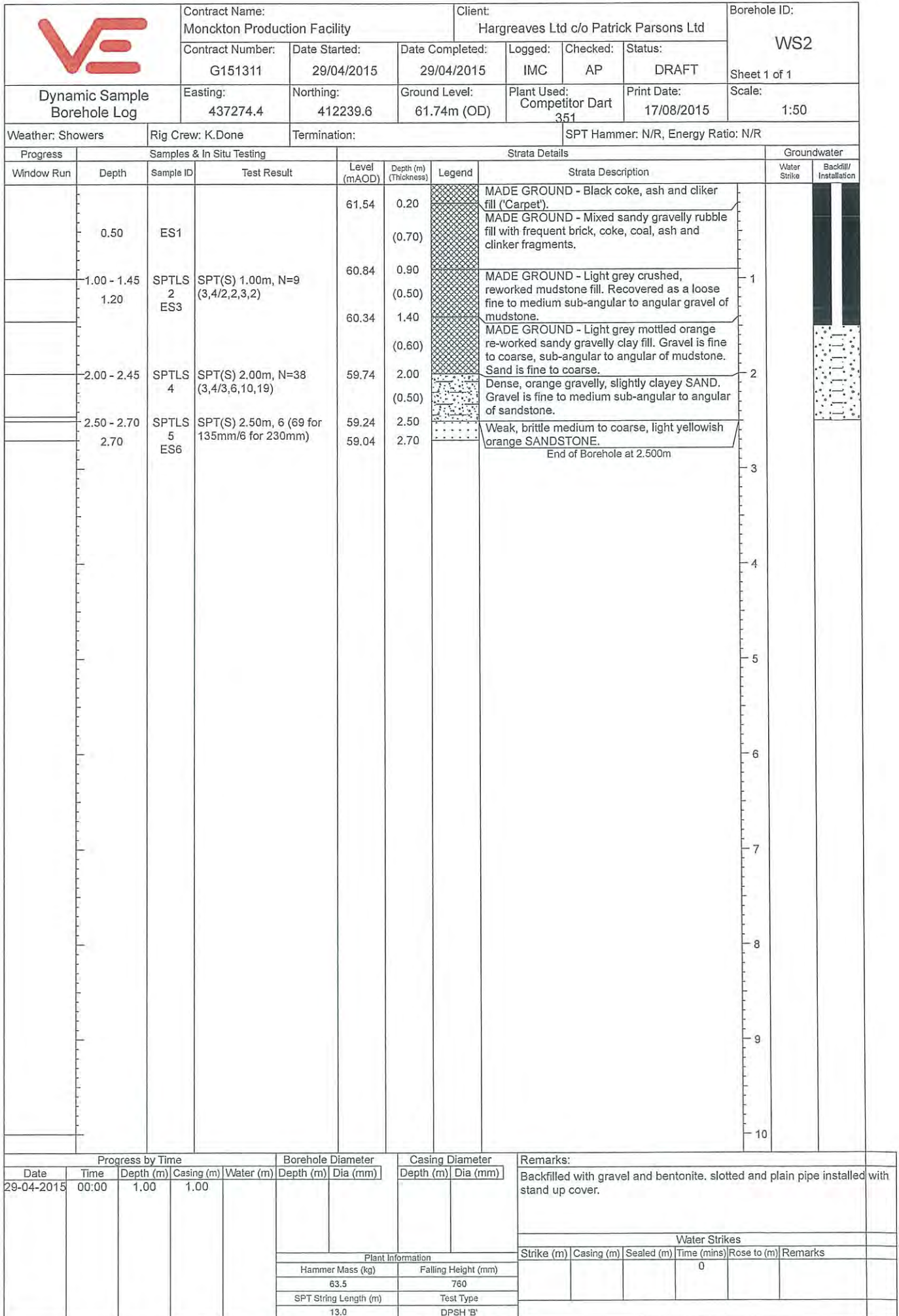
Progress by Time					Borehole Diameter		Casing Diameter		Remarks: Backfilled with gravel and bentonite. slotted and plain pipe installed with stand up cover.		
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)			
06-05-2015	00:00	1.00	1.00	3.80							
06-05-2015	01:00	2.00	1.00								
06-05-2015	02:00	3.00	1.00								
11-05-2015	03:00	4.00	1.00								
Plant Information									Water Strikes		
Hammer Mass (kg)		Falling Height (mm)		Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks		
63.5		760		3.80			0 20	3.80			
SPT String Length (m)		Test Type									
13.0		DPSH /B'									

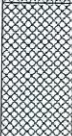
	Contract Name: Monckton Production Facility		Client: Hargreaves Ltd c/o Patrick Parsons Ltd		Borehole ID: WS9	
	Contract Number: G151311	Date Started: 06/05/2015	Date Completed: 06/05/2015	Logged: IMC	Checked: AP	Status: PRELIM
Dynamic Sample Borehole Log	Easting: 437449.2	Northing: 411805.5	Ground Level: 61.93m (OD)	Plant Used: Competitor Dart 351	Print Date: 17/08/2015	Scale: 1:50
	Weather:					Termination:

Progress		Samples & In Situ Testing		Strata Details		Groundwater	
Window Run	Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Strata Description	Water Strike
				61.88	0.05	Vegetation (grass) over light orangish brown sandy gravelly clayey TOPSOIL. Gravel is fine sub-angular of mudstone. Sand is fine to coarse.	
	0.50 0.50	D1 ES2		61.53	0.40	MADE GROUND - Medium, occasionally coarse, sub-angular light grey gravel of mudstone.	
	1.00 1.00	D4 ES5	SPT(S) 1.00m, N=3 (1,1/0,1,1,1)		(1.60)	MADE GROUND - Orangish brown sandy gravelly reworked clay fill with embedded brick, coal and coke fragments.	1
	1.00 - 1.45	SPTLS 3					
	2.00 2.00	D7 ES8	SPT(S) 2.00m, N=4 (1,1/1,1,1,1)	59.93	2.00	Soft becoming firm, orangish brown mottled grey sandy, occasionally gravelly CLAY. Gravel is medium to coarse, sub-angular of mudstone. Sand is fine to coarse.	2
	2.00 - 2.45	SPTLS 6					
	3.00 3.00	D10 ES11	SPT(S) 3.00m, N=17 (2,4/4,4,5,4)		(3.00)		3
	3.00 - 3.45	SPTLS 9					
	4.00 - 4.45	SPTLS 12	SPT(S) 4.00m, N=35 (5,6/7,8,9,10)				4
	5.00 5.00	D14 ES15	SPT(S) 5.00m, 0 (75 for 30mm/...)	56.93	5.00	End of Borehole at 5.050m	5
	5.00 - 5.45	SPTLS 13					
							6
							7
							8
							9
							10

Progress by Time					Borehole Diameter		Casing Diameter		Remarks: Backfilled with gravel and bentonite. slotted and plain pipe installed with stand up cover. Groundwater encountered at 2.6m bgl with no rise recorded.			
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)				
06-05-2015	00:00	1.00	1.00									
06-05-2015	01:00	2.00	2.00									
06-05-2015	02:00	3.00	2.00									
06-05-2015	03:00	4.00	2.00	3.40								
06-05-2015	04:00	5.00	2.00	3.10								
					Plant Information		Water Strikes					
					Hammer Mass (kg)	Falling Height (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					63.5	760	2.60			0 20	2.60	
					SPT String Length (m)	Test Type						
					13.0	DPSH 'B'						

	Contract Name: Monckton Production Facility				Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: WS1																																																																																																																												
	Contract Number: G151311	Date Started: 29/04/2015	Date Completed: 29/04/2015	Logged: IMC	Checked: AP	Status: DRAFT		Sheet 1 of 1																																																																																																																												
	Easting: 437216.4		Northing: 412332.3	Ground Level: 60.13m (OD)	Plant Used: Competitor Dart 351	Print Date: 17/08/2015		Scale: 1:50																																																																																																																												
Weather: Showers		Rig Crew: K.Done		Termination:		SPT Hammer: N/R, Energy Ratio: N/R																																																																																																																														
Progress	Samples & In Situ Testing								Strata Details	Groundwater																																																																																																																										
Window Run	Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/Installation																																																																																																																											
	0.30	D1					MADE GROUND - Black coke, ash, coal and clinker fill with occasional brick fragments.																																																																																																																													
	0.50	D2																																																																																																																																		
	0.50	ES3																																																																																																																																		
	1.00	D5	SPT(S) 1.00m, N=8 (1,0/1,1,2,4)		(1.60)			1																																																																																																																												
	1.00	ES6																																																																																																																																		
	1.00 - 1.45	SPTLS 4																																																																																																																																		
	1.50	D7	SPT(S) 2.00m, N=7 (1,1/2,1,2,2)	58.53	1.60		MADE GROUND - Dark grey mottled orange re-worked sandy gravelly clay fill with embedded brick, coke and coal fragments. Gravel is fine to medium of sandstone and mudstone. Sand is medium to coarse.	2																																																																																																																												
	1.50	ES8																																																																																																																																		
	2.00 - 2.45	SPTLS 9																																																																																																																																		
					(1.40)																																																																																																																															
	3.00	D11	SPT(S) 3.00m, N=8 (1,2/2,2,2,2)	57.13	3.00		Medium dense orange gravelly, slightly clayey SAND. Gravel is fine to medium, sub-angular to angular. Sand is fine to coarse.	3																																																																																																																												
	3.00	ES12																																																																																																																																		
	3.00 - 3.45	SPTLS 10				(0.80)																																																																																																																														
				56.33	3.80		Weak, brittle, medium to coarse orange SANDSTONE. End of Borehole at 2.700m	4																																																																																																																												
	4.00	D14	SPT(S) 4.00m, 50 (2,2/50 for 235mm)	56.13	4.00																																																																																																																															
	4.00	ES15																																																																																																																																		
	4.00 - 4.35	SPTLS 13																																																																																																																																		
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<table border="1"> <tr> <th colspan="5">Progress by Time</th> <th colspan="2">Borehole Diameter</th> <th colspan="2">Casing Diameter</th> <th rowspan="5">Remarks: Backfilled with gravel and bentonite. slotted and plain pipe installed with stand up cover.</th> </tr> <tr> <th>Date</th> <th>Time</th> <th>Depth (m)</th> <th>Casing (m)</th> <th>Water (m)</th> <th>Depth (m)</th> <th>Dia (mm)</th> <th>Depth (m)</th> <th>Dia (mm)</th> </tr> <tr> <td>29-04-2015</td> <td>00:00</td> <td>1.00</td> <td>1.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <th colspan="9">Plant Information</th> <th colspan="2">Water Strikes</th> </tr> <tr> <th colspan="4">Hammer Mass (kg)</th> <th colspan="5">Falling Height (mm)</th> <th>Strike (m)</th> <th>Casing (m)</th> </tr> <tr> <td colspan="4">63.5</td> <td colspan="5">760</td> <td></td> <td></td> </tr> <tr> <th colspan="4">SPT String Length (m)</th> <th colspan="5">Test Type</th> <td>Sealed (m)</td> <td>Time (mins)</td> </tr> <tr> <td colspan="4">13.0</td> <td colspan="5">DPSH 'B'</td> <td></td> <td></td> </tr> <tr> <th colspan="4"></th> <th colspan="5"></th> <th>Rose to (m)</th> <th>Remarks</th> </tr> <tr> <td colspan="4"></td> <td colspan="5"></td> <td></td> <td></td> </tr> </table>										Progress by Time					Borehole Diameter		Casing Diameter		Remarks: Backfilled with gravel and bentonite. slotted and plain pipe installed with stand up cover.	Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	29-04-2015	00:00	1.00	1.00																								Plant Information									Water Strikes		Hammer Mass (kg)				Falling Height (mm)					Strike (m)	Casing (m)	63.5				760							SPT String Length (m)				Test Type					Sealed (m)	Time (mins)	13.0				DPSH 'B'																Rose to (m)	Remarks											
Progress by Time					Borehole Diameter		Casing Diameter		Remarks: Backfilled with gravel and bentonite. slotted and plain pipe installed with stand up cover.																																																																																																																											
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)																																																																																																																												
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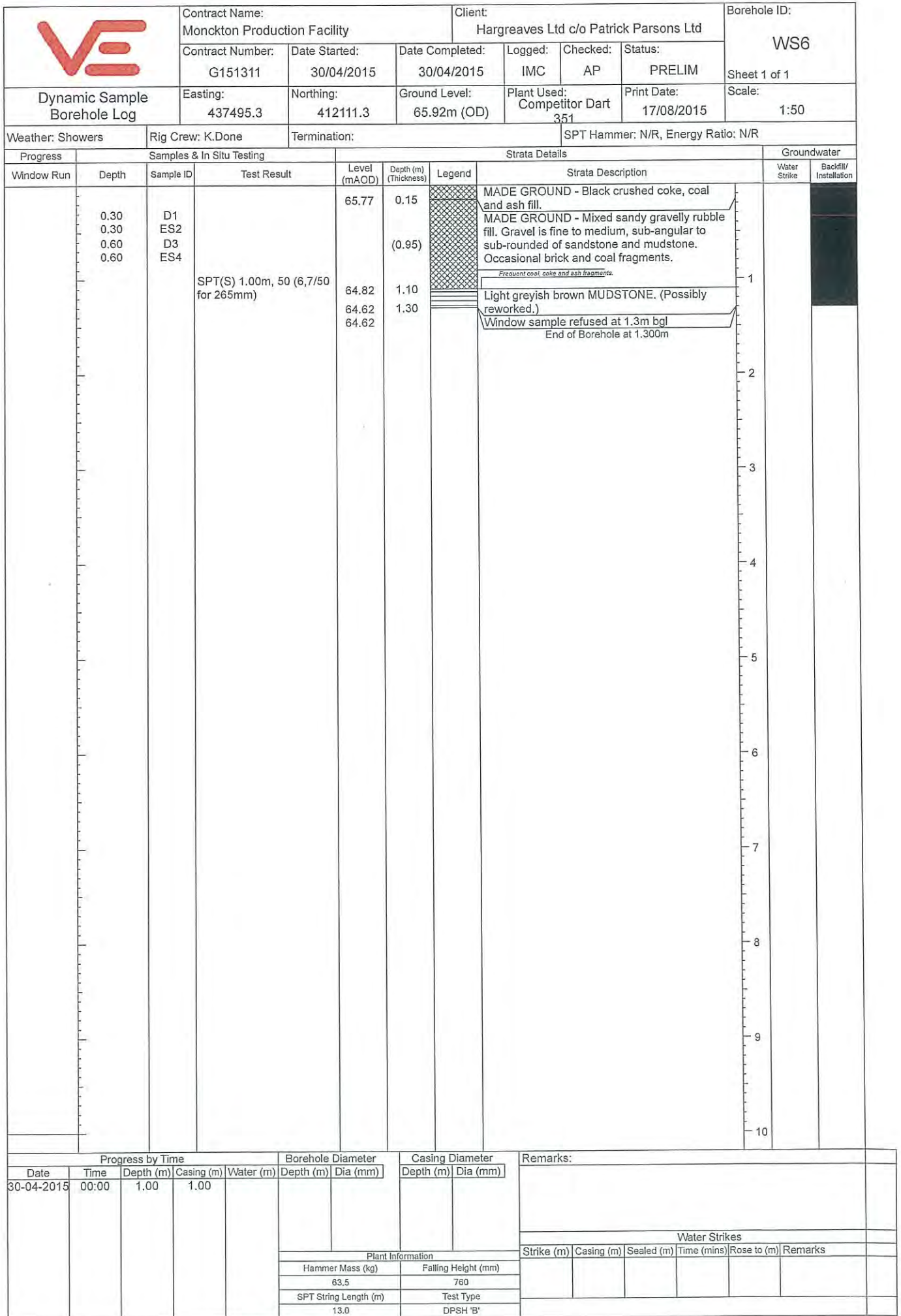


		Contract Name: Monckton Production Facility				Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: WS3	
		Contract Number: G151311	Date Started: 29/04/2015	Date Completed: 29/04/2015	Logged: IMC	Checked: AP	Status: PRELIM			
Dynamic Sample Borehole Log		Easting: 437343.0	Northing: 412314.9	Ground Level: 62.30m (OD)	Plant Used: Competitor Dart 351	Print Date: 17/08/2015	Sheet 1 of 1 Scale: 1:50			
		Weather:		Rig Crew: K.Done		Termination:		SPT Hammer: N/R, Energy Ratio: N/R		
Progress		Samples & In Situ Testing			Strata Details				Groundwater	
Window Run	Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation	
	0.30	ES1		61.70	(0.60)		MADE GROUND - Crushed coke fill.			
	1.00	ES3	SPT(S) 1.00m, N=8		0.60		MADE GROUND - Greyish black mottled orangish brown reworked sandy gravelly clay fill with frequent coal, coke, ash and brick fragments. Gravel is fine to coarse, sub-angular to very angular of mixed lithologies. Sand is fine to coarse.	1		
	1.00 - 1.45	SPTLS 2	(1,1/1,2,2,3)							
	1.50	ES4								
	2.00 - 2.45	SPTLS 5	SPT(S) 2.00m, N=7 (2,3/2,1,2,2)		(3.40)			2		
	2.50	ES6								
	3.00 - 3.45	SPTLS 7	SPT(S) 3.00m, N=9 (1,2/2,3,2,2)					3		
	3.50	ES8								
	3.90 - 4.00	SPTLS 9	SPT(S) 3.90m, 0 (75 for 95mm/,,)	58.30	4.00		End of Borehole at 4.000m	4		
								5		
								6		
								7		
								8		
								9		
								10		
Progress by Time		Borehole Diameter		Casing Diameter		Remarks:				
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)		
29-04-2015	00:00	1.00	1.00						Groundwater struck at 3.9m, with no rise recorded after 20 minutes. Backfilled with gravel and bentonite. slotted and plain pipe installed with stand up cover.	
						Water Strikes				
						Strike (m) Casing (m) Sealed (m) Time (mins) Rose to (m) Remarks				
						3.90 0 20 3.90				
						Plant Information				
						Hammer Mass (kg) Falling Height (mm)				
						63.5 760				
						SPT String Length (m) Test Type				
						13.0 DPSH 'B'				

	Contract Name: Monckton Production Facility			Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: WS4	
	Contract Number: G151311	Date Started: 28/04/2015	Date Completed: 28/04/2015	Logged: IMC	Checked: AP	Status: PRELIM	Sheet 1 of 1	
Dynamic Sample Borehole Log	Easting: 437365.6	Northing: 412171.1	Ground Level: 63.91m (OD)	Plant Used: Competitor Dart 351		Print Date: 17/08/2015	Scale: 1:50	
	Weather: Showers		Rig Crew: K.Done	Termination:		SPT Hammer: N/R, Energy Ratio: N/R		
Progress	Samples & In Situ Testing			Strata Details				Groundwater
Window Run	Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike
	0.00	D1					MADE GROUND - Black crushed coke fill (stock yard 'carpet')	
	0.30	D2		63.66	0.25		MADE GROUND - Mixed fill of crushed brick, sandstone and mudstone gravels and occasional coal, coke, and clinker.	
	0.50	D3						
	0.50	ES4						
	1.00	ES6	SPT(S) 1.00m, N=7					1
	1.00 - 1.45	SPTLS 5	(1,0/1,2,2,2)					
	1.50	D7			(2.45)			
	2.00 - 2.45	SPTLS 8	SPT(S) 2.00m, N=8					2
			(1,1/2,2,2,2)					
	3.00 - 3.45	SPTLS 9	SPT(S) 3.00m, N=18	61.21	2.70		Dense, orange gravelly SAND. Gravel is fine to coarse, sub-angular to angular of sandstone.	3
			(2,3/4,4,5,5)	61.11	2.80		Weak, orange fine to medium SANDSTONE.	
				60.91	3.00		Window sample refused at 3.0m bgl on sandstone. SPT advanced to 4.0m bgl.	
	4.00 - 4.20	SPTLS 10	SPT(S) 4.00m, 4 (71 for 140mm/4,,)	60.91				4
							End of Borehole at 4.200m	
								5
								6
								7
								8
								9
								10
Progress by Time			Borehole Diameter		Casing Diameter		Remarks:	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)
28-04-2015	00:00	1.00	1.00					
28-04-2015	01:00	2.00	2.00					
28-04-2015	02:00	3.00	2.00					
28-04-2015	03:00	4.00	2.00					
Plant Information						Water Strikes		
Hammer Mass (kg)						Strike (m)		
63.5						Casing (m)		
Falling Height (mm)						Sealed (m)		
760						Time (mins)		
SPT String Length (m)						Rose to (m)		
13.0						Remarks		
Test Type								
DPSH 'B'								

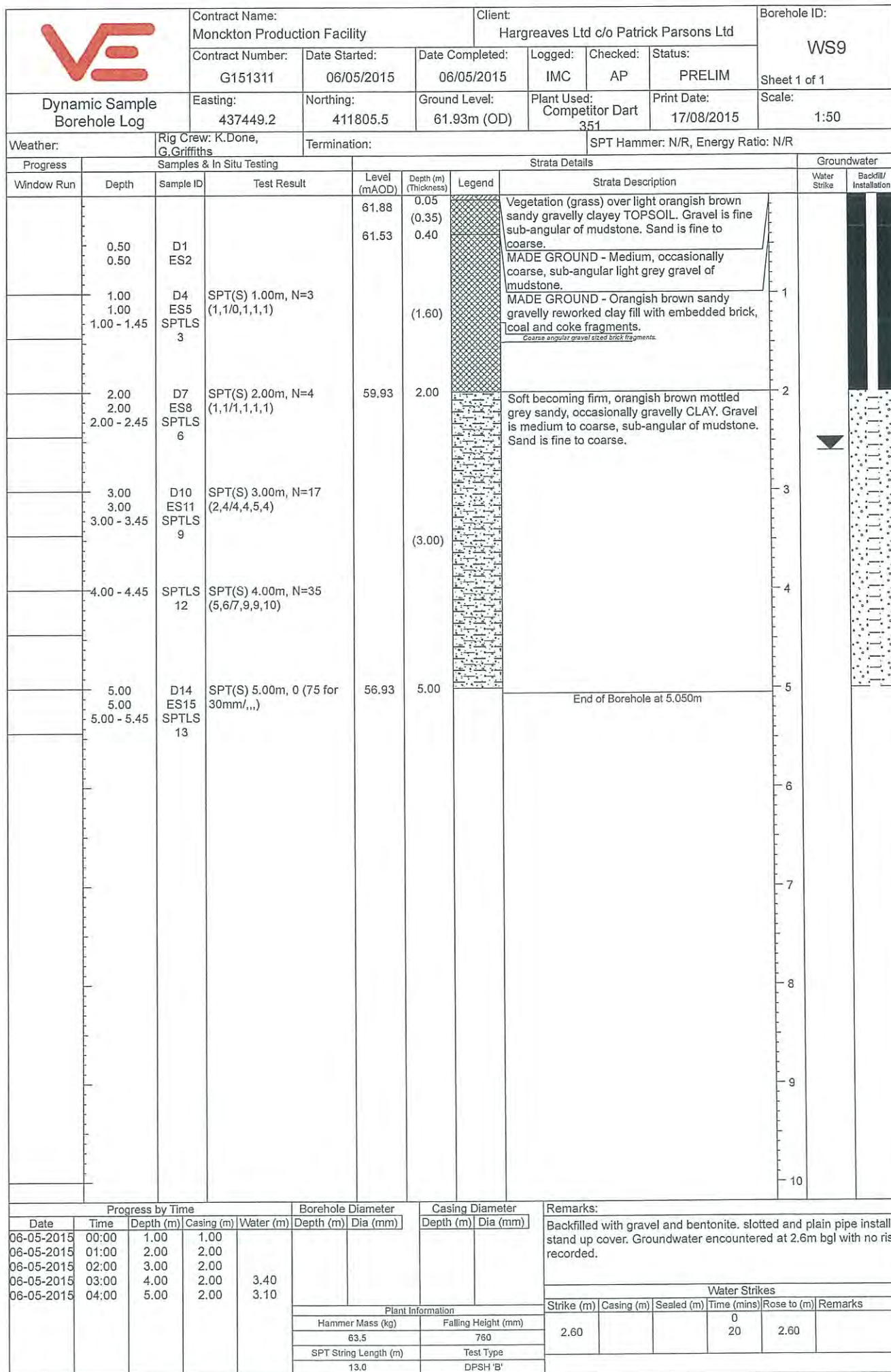
		Contract Name: Monckton Production Facility				Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: WS5		
		Contract Number: G151311	Date Started: 28/04/2015	Date Completed: 28/04/2015	Logged: IMC	Checked: AP	Status: PRELIM				
Dynamic Sample Borehole Log		Easting: 437481.8	Northing: 412228.2	Ground Level: 65.19m (OD)	Plant Used: Competitor Dart 351	Print Date: 17/08/2015	Sheet 1 of 1				
						Scale: 1:50					
Weather: Showers		Rig Crew: K.Done		Termination:		SPT Hammer: N/R, Energy Ratio: N/R					
Progress		Samples & In Situ Testing			Strata Details					Groundwater	
Window Run	Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description			Water Strike	Backfill/ Installation
	0.00	D1					MADE GROUND - Black crushed coke fill with coal and ash. (Stockyard 'Carpet').				
	0.30	D2			(0.50)						
	0.50	D3		64.69	0.50						
	0.50	ES4					MADE GROUND - Reworked light grey crushed mudstone fill with fine to coarse sand and fine to to medium sub-angular to angular gravel of mudstone and occasional sandstone.				
	1.00	D6	SPT(S) 1.00m, N=18 (3,5/5,4,4,5)		(1.50)					1	
	1.00	ES7									
	1.00 - 1.45	SPTLS 5									
	1.50	D8									
	2.00	D10	SPT(S) 2.00m, N=17 (3,3/4,4,4,5)	63.19	2.00		MADE GROUND - Reworked reddish brown sandy gravelly clay fill. Sand is fine to coarse, gravel is fine to medium, sub-angular to angular of sandstone and mudstone. Occasional embedded coal, coke and brick fragments.			2	
	2.00	ES11									
	2.00 - 2.45	SPTLS 9									
	2.50	D12			(1.70)						
	3.00	D14	SPT(S) 3.00m, N=26 (5,5/5,6,7,8)							3	
	3.00	ES15									
	3.00 - 3.45	SPTLS 13									
	4.00	D17	SPT(S) 4.00m, 50 (25 for 135mm/50 for 275mm)	61.49	3.70 (0.30)		Light orangish grey weak MUDSTONE.			4	
	4.00 - 4.20	SPTLS 16		61.19	4.00		End of Borehole at 4.200m				
										5	
										6	
										7	
										8	
										9	
										10	

Progress by Time					Borehole Diameter		Casing Diameter		Remarks:	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)		
28-04-2015	00:00	1.00	1.00						Groundwater struck at 2.9m, with no rise recorded after 20 minutes. Backfilled with gravel and bentonite. slotted and plain pipe installed with stand up cover.	
28-04-2015	01:00	2.00	1.00							
28-04-2015	02:00	3.00	1.00							
28-04-2015	03:00	4.00	1.00							
Plant Information										
				Strike (m)		Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
				Hammer Mass (kg)		Falling Height (mm)				
				63.5		760				
				SPT String Length (m)		Test Type				
				13.0		DPSH 'B'				

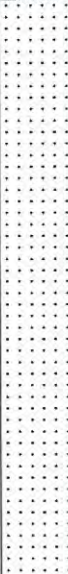


		Contract Name: Monckton Production Facility			Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: WS7	
		Contract Number: G151311	Date Started: 06/05/2015	Date Completed: 06/05/2015	Logged: IMC	Checked: AP	Status: PRELIM	Sheet 1 of 1	
Dynamic Sample Borehole Log		Easting: 437449.2	Northing: 411838.6	Ground Level: 61.99m (OD)	Plant Used: Competitor Dart 351	Print Date: 17/08/2015	Scale: 1:50		
Weather:		Rig Crew: K.Done, G.Griffiths		Termination:		SPT Hammer: N/R, Energy Ratio: N/R			
Progress	Samples & In Situ Testing								
Window Run	Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Details		Groundwater
							Strata Description		Water Strike
	0.30	ES1		61.89	0.10	  	MADE GROUND - Crushed, compacted dark grey/black coal, ash and coke fill.		
	0.50	D2		61.59	0.40		MADE GROUND - Reworked sandy gravelly clay fill with embedded brick, coal, coke and ash.		
	0.70	3					Orangish brown firm sandy CLAY.		
	1.00	D5	SPT(S) 1.00m, N=25						1
	1.00 - 1.45	SPTLS 4	(5,5/5,6,7,7)						
	1.50	ES6							
	2.00	D8	SPT(S) 2.00m, N=29						2
	2.00 - 2.45	SPTLS 7	(6,7/7,7,7,8)						
	2.50	ES9		(3.90)					
	3.00	D11	SPT(S) 3.00m, N=41						3
	3.00 - 3.45	SPTLS 10	(8,8/9,10,10,12)						
	3.50	ES12							
	4.00	D14	SPT(S) 4.00m, 50 (24 for 95mm/50 for 265mm)						4
	4.00 - 4.45	SPTLS 13		57.69	4.30				
	4.50	ES15			(0.70)		Stiff, orangish brown mottled grey slightly sandy CLAY.		
				56.99	5.00		End of Borehole at 5.000m		5
									6
									7
									8
									9
									10

Progress by Time					Borehole Diameter		Casing Diameter		Remarks:	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)		
06-05-2015	00:00	1.00	1.00						Backfilled with gravel and bentonite. slotted and plain pipe installed with stand up cover.	
06-05-2015	01:00	2.00	1.00							
06-05-2015	02:00	3.00	1.00							
11-05-2015	03:00	4.00	1.00	3.80						
					Plant Information		Water Strikes			
					Hammer Mass (kg)		Strike (m)		Casing (m)	Sealed (m)
					63.5		3.80			
					Falling Height (mm)		Time (mins)		Rose to (m)	Remarks
					760		0		3.80	
					SPT String Length (m)		20			
					13.0					
					Test Type					
					DPSH 'B'					



		Contract Name: Monckton Production Facility				Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: WS10							
		Contract Number: G151311	Date Started: 06/05/2015	Date Completed: 06/05/2015	Logged:	Checked: AP	Status: PRELIM	Sheet 1 of 1								
Dynamic Sample Borehole Log		Easting: 437433.5		Northing: 411817.3		Ground Level: 61.94m (OD)		Plant Used: Competitor Dart 351		Print Date: 17/08/2015		Scale: 1:50				
Weather:		Rig Crew: K.Done, G.Griffiths		Termination:				SPT Hammer: N/R, Energy Ratio: N/R								
Progress		Samples & In Situ Testing				Strata Details						Groundwater				
Window Run	Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description					Water Strike	Backfill/ Installation			
	0.50 0.50	D1 ES2		61.79 61.59	0.15 0.35		Vegetation (grass) over light orangish brown sandy gravelly clayey TOPSOIL. Gravel is fine sub-angular of mudstone. Sand is fine to coarse.									
	1.00 1.00 1.00 - 1.45	D4 ES5 SPTLS 3	SPT(S) 1.00m, N=5 (1,1/1,2,1,1)		(1.15)		MADE GROUND - Medium to coarse, sub-angular light grey gravel of mudstone. MADE GROUND - Reddish brown to dark greyish brown, reworked sandy gravelly clay fill with frequent embedded brick, coal, coke and ash fragments.					1				
	1.50 1.50	D6 ES7		60.44	1.50		Soft, reddish brown, sandy slightly gravelly CLAY. Gravel is fine, sub-angular of mudstone. Sand is fine to coarse.									
	2.00 - 2.45	SPTLS 8	SPT(S) 2.00m, 3 (./,./,1,2)									2				
	2.50 2.50	D9 ES10			(2.10)											
	3.00 - 3.45	SPTLS 11	SPT(S) 3.00m, N=8 (2,3/3,2,2,1)									3				
	4.00 4.00 4.00 - 4.45	D13 ES14 SPTLS 12	SPT(S) 4.00m, 50 (25 for 135mm/50 for 290mm)	58.34	3.60		Firm brownish grey slightly sandy CLAY. Gravel is fine, sub-angular of mudstone. Sand is fine to coarse.					4				
	5.00 - 5.05	SPTLS 15	SPT(S) 5.00m, 0 (75 for 40mm/,...)	56.94	5.00		End of Borehole at 5.050m					5				
												6				
												7				
												8				
												9				
												10				
Progress by Time		Borehole Diameter		Casing Diameter		Remarks:										
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Backfilled with gravel and bentonite. slotted and plain pipe installed with stand up cover. Groundwater encountered at 2.8m, with no rise recorded.							
06-05-2015	00:00	1.00	1.00													
06-05-2015	01:00	2.00	2.00													
06-05-2015	02:00	3.00	2.00	2.80												
06-05-2015	03:00	4.00	2.00	3.40												
06-05-2015	04:00	5.00	2.00	3.80												
Plant Information						Water Strikes										
Hammer Mass (kg)						Strike (m)						Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
63.5						2.80								0 20	2.80	
SPT String Length (m)																
13.0																
Test Type																
DPSH 'B'																

	Contract Name: Monckton Production Facility				Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: RBH1						
	Contract Number: G151311	Date Started: 30/04/2015	Date Completed: 30/04/2015	Logged: IMC	Checked: AP	Status: PRELIM		Sheet 1 of 2						
Rotary Open Hole Borehole Log	Easting: 437328.8	Northing: 412234.2	Ground Level: 62.90m (OD)	Plant Used: Comacchio 602	Print Date: 13/08/2015		Scale: 1:50							
Weather:		Rig Crew: I.Mountain, L.Thomas		Termination:										
Samples & In Situ Testing				Strata Details				Groundwater						
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description		Water Strike	Backfill/ Installation					
			61.70	(1.20) 1.20		MADE GROUND (Drillers Description)								
						Brown weathered SANDSTONE (Drillers Description)								
				(4.00)										
			57.70	5.20		SANDSTONE (Drillers Description)								
						Continued next sheet								
Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:					
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Backfilled with gravel and bentonite. slotted and plain pipe installed with stand up cover.					
Flush Information					Installation				Water Strike					
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	12.00	PLAIN	50						
					12.00	16.00	SLOTTED	50						

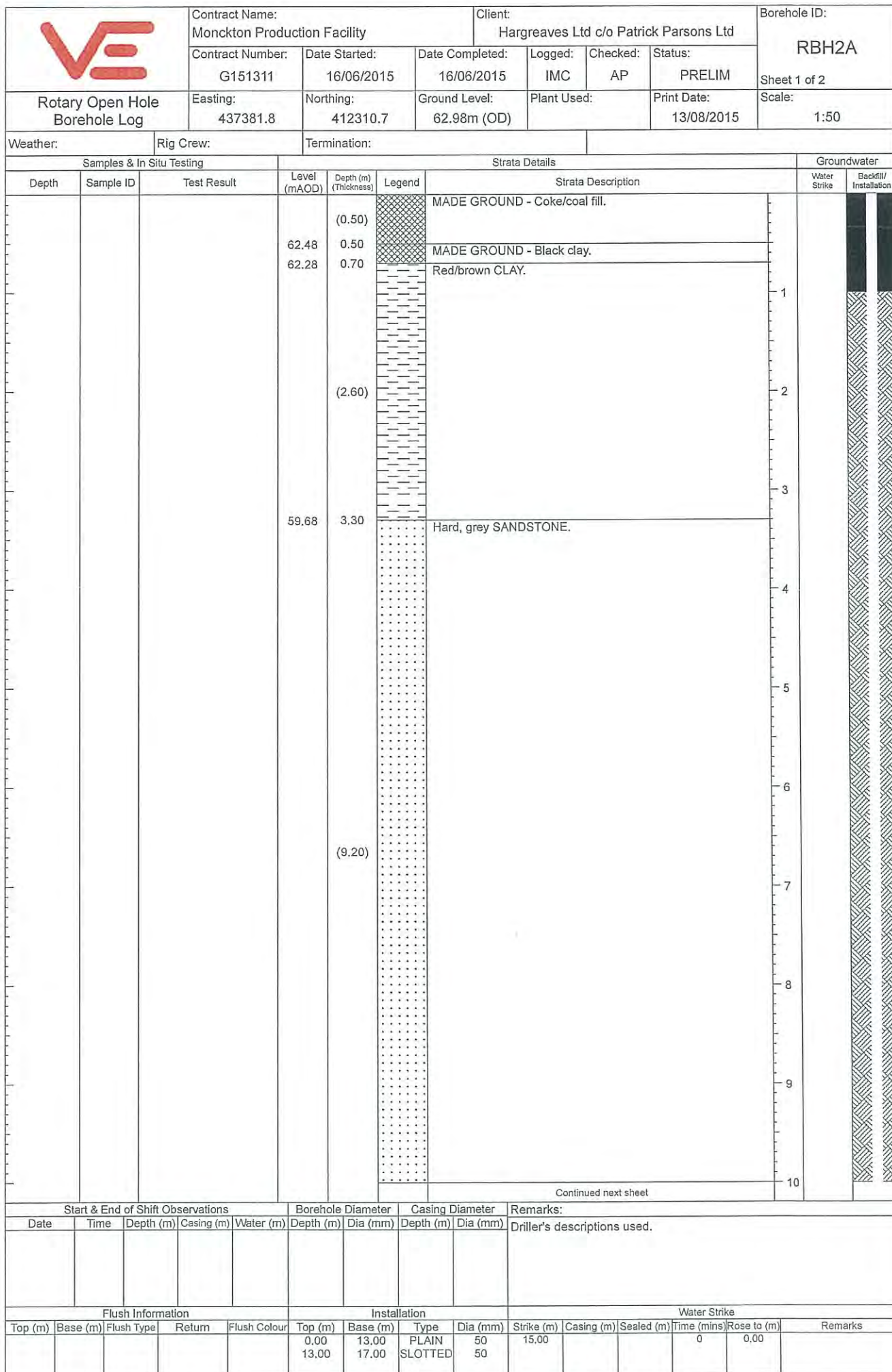
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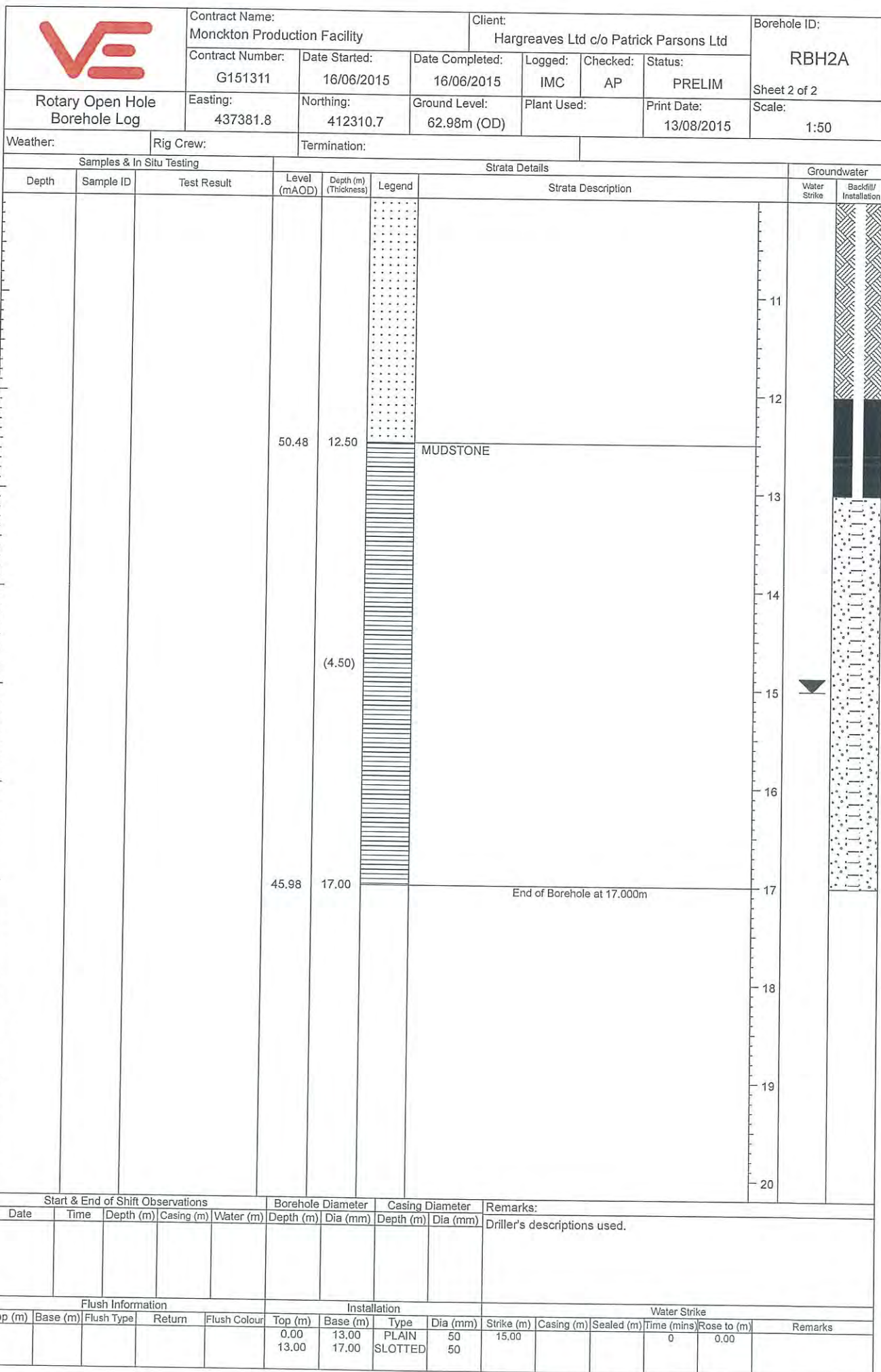
	Contract Name: Monckton Production Facility		Client: Hargreaves Ltd c/o Patrick Parsons Ltd		Borehole ID: RBH1D									
	Contract Number: G151311	Date Started: 18/06/2015	Date Completed: 19/06/2015	Logged: IMC	Checked: AP	Status: PRELIM								
Rotary Open Hole Borehole Log	Easting: 437328.7	Northing: 412231.3	Ground Level: 62.82m (OD)	Plant Used: Puntel	Print Date: 13/08/2015	Scale: 1:50								
Weather:		Rig Crew:	Termination:											
Samples & In Situ Testing			Strata Details			Groundwater								
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description								
				(0.50)		MADE GROUND - Coke/coal fill.								
			62.32	0.50										
			62.22	0.60		MADE GROUND - Concrete.								
						MADE GROUND								
				(0.50)										
			61.72	1.10		Brown CLAY.								
				(0.40)										
			61.32	1.50		Broken SANDSTONE.								
				(1.10)										
			60.22	2.60		NO RECOVERY.								
				(0.40)										
			59.82	3.00		Hard, red SANDSTONE.								
				(9.50)										
						Continued next sheet								
Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:					
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Driller's descriptions used.					
Flush Information					Installation				Water Strike					
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	11.50	PLAIN	50	13.50			0	0.00	
					11.50	15.50	SLOTTED	50						

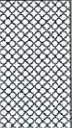
	Contract Name: Monckton Production Facility				Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: RBH1D						
	Contract Number: G151311		Date Started: 18/06/2015		Date Completed: 19/06/2015		Logged: IMC	Checked: AP	Status: PRELIM					
	Easting: 437328.7		Northing: 412231.3		Ground Level: 62.82m (OD)		Plant Used: Puntel		Print Date: 13/08/2015					
Rotary Open Hole Borehole Log				Termination:				Scale: 1:50						
Weather:		Rig Crew:												
Samples & In Situ Testing				Strata Details				Groundwater						
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description		Water Strike	Backfill/ Installation					
			50.32	12.50				11						
						MUDSTONE		12						
				(3.00)				13						
			47.32	15.50		End of Borehole at 15.500m		14						
								15						
								16						
								17						
								18						
								19						
								20						
Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:					
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Driller's descriptions used.					
Flush Information					Installation				Water Strike					
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	11.50	PLAIN	50	13.50			0	0.00	
					11.50	15.50	SLOTTED	50						

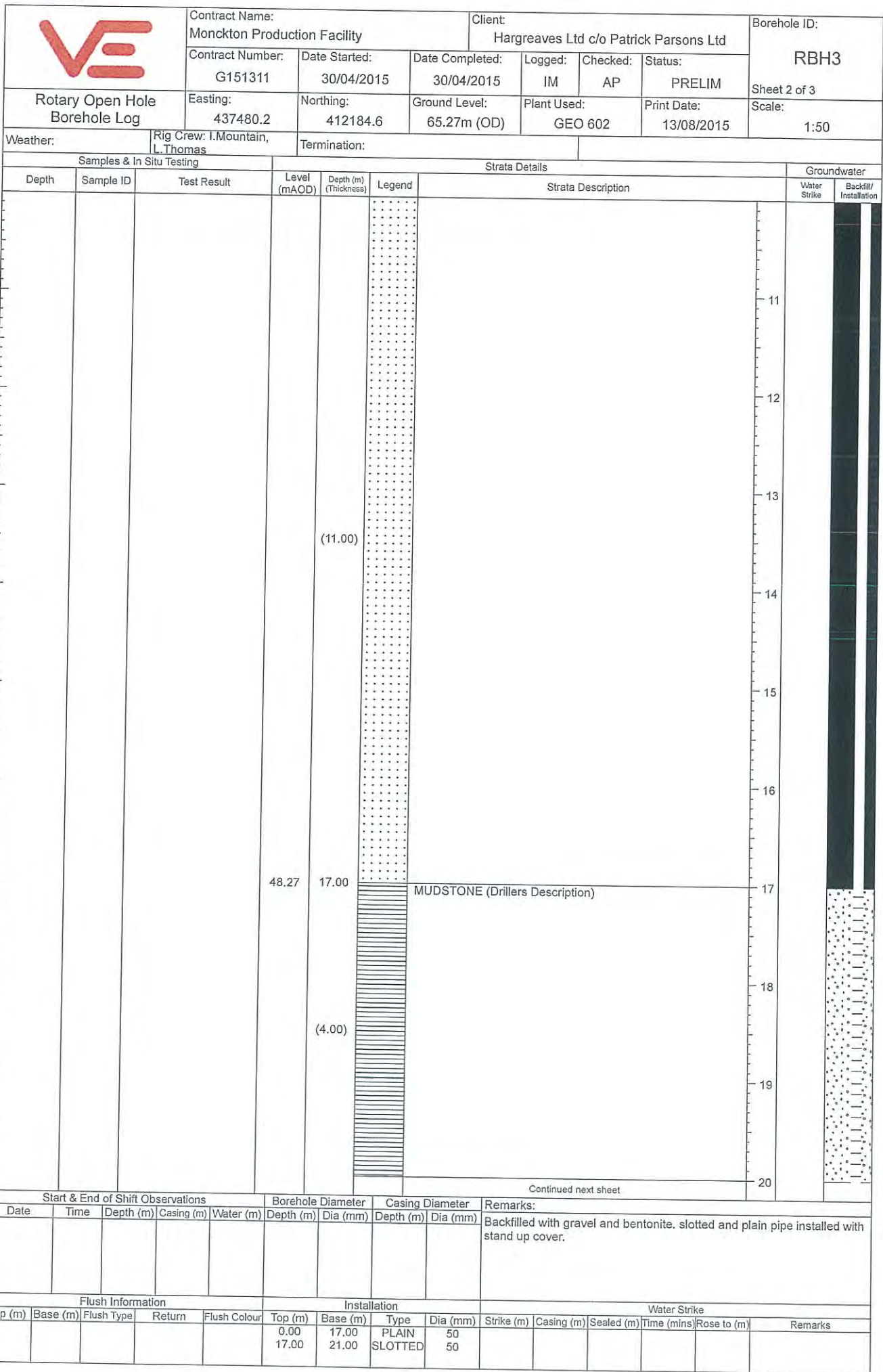
	Contract Name: Monckton Production Facility			Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: RBH2		
	Contract Number: G151311	Date Started: 30/04/2015	Date Completed: 30/04/2015	Logged: IMC	Checked: AP	Status: PRELIM	Sheet 1 of 2		
Rotary Open Hole Borehole Log	Easting: 437379.4	Northing: 412310.4	Ground Level: 62.97m (OD)	Plant Used: Puntel	Print Date: 13/08/2015	Scale: 1:50			
Weather:		Rig Crew: I.Mountain, L.Thomas		Termination:					
Samples & In Situ Testing			Strata Details					Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description		Water Strike	
						MADE GROUND (Drillers Description)			
			61.87	(1.10) 1.10				1	
				(2.00)		Brown weathered SANDSTONE		2	
			59.87	3.10		MUDSTONE (Drillers Description)		3	
				(1.80)				4	
			58.07	4.90		SANDSTONE (Drillers Description)		5	
								6	
								7	
								8	
								9	
								10	
Continued next sheet									
Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Backfilled with gravel and bentonite. slotted and plain pie installed with stand up cover. Groundwater struck at 12.0m, with no rise recorded.
Flush Information					Installation				Water Strike
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)
					0.00	12.00	PLAIN	50	12.00
					12.00	16.00	SLOTTED	50	
									Casing (m)
									Sealed (m)
									Time (mins)
									Rose to (m)
									Remarks

[illegible]





	Contract Name: Monckton Production Facility				Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: RBH3						
	Contract Number: G151311	Date Started: 30/04/2015	Date Completed: 30/04/2015	Logged: IM	Checked: AP	Status: PRELIM	Sheet 1 of 3							
Rotary Open Hole Borehole Log	Easting: 437480.2	Northing: 412184.6	Ground Level: 65.27m (OD)	Plant Used: GEO 602	Print Date: 13/08/2015	Scale: 1:50								
	Weather:		Rig Crew: I.Mountain, L.Thomas		Termination:									
Samples & In Situ Testing			Strata Details					Groundwater						
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description		Water Strike	Backfill/ Installation					
				(0.90)		MADE GROUND (Drillers Description)								
			64.37	0.90			SANDSTONE with gravel bands (Drillers Description)		1					
							2							
							3							
				(5.10)			4							
							5							
			59.27	6.00		SANDSTONE (Drillers Description)		6						
								7						
								8						
								9						
								10						
Continued next sheet														
Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:					
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Backfilled with gravel and bentonite, slotted and plain pipe installed with stand up cover.					
Flush Information					Installation				Water Strike					
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	17.00	PLAIN	50						
					17.00	21.00	SLOTTED	50						



	Contract Name: Monckton Production Facility		Client: Hargreaves Ltd c/o Patrick Parsons Ltd				Borehole ID: RBH3	
	Contract Number: G151311	Date Started: 30/04/2015	Date Completed: 30/04/2015	Logged: IM	Checked: AP	Status: PRELIM	Sheet 3 of 3	
Rotary Open Hole Borehole Log		Easting: 437480.2	Northing: 412184.6	Ground Level: 65.27m (OD)	Plant Used: GEO 602	Print Date: 13/08/2015	Scale: 1:50	
Weather:		Rig Crew: I.Mountain, L.Thomas		Termination:				
Samples & In Situ Testing				Strata Details			Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
			44.27	21.00		End of Borehole at 21.000m	21	
							22	
							23	
							24	
							25	
							26	
							27	
							28	
							29	
							30	
Start & End of Shift Observations			Borehole Diameter		Casing Diameter		Remarks:	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)
Flush Information			Installation			Water Strike		
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)
					0.00	17.00	PLAIN	50
					17.00	21.00	SLOTTED	50
						Strike (m)	Casing (m)	Sealed (m)
						Time (mins)	Rose to (m)	Remarks

	Contract Name: Monckton Production Facility				Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: RBH3A	
	Contract Number: G151311		Date Started: 15/06/2015		Date Completed: 17/06/2015		Logged: IMC	Checked: AP	Status: PRELIM
	Easting: 437479.9		Northing: 412189.4		Ground Level: 65.18m (OD)		Plant Used: Puntel		Print Date: 13/08/2015
Rotary Open Hole Borehole Log			Weather:		Rig Crew:		Termination:		Sheet 1 of 2 Scale: 1:50

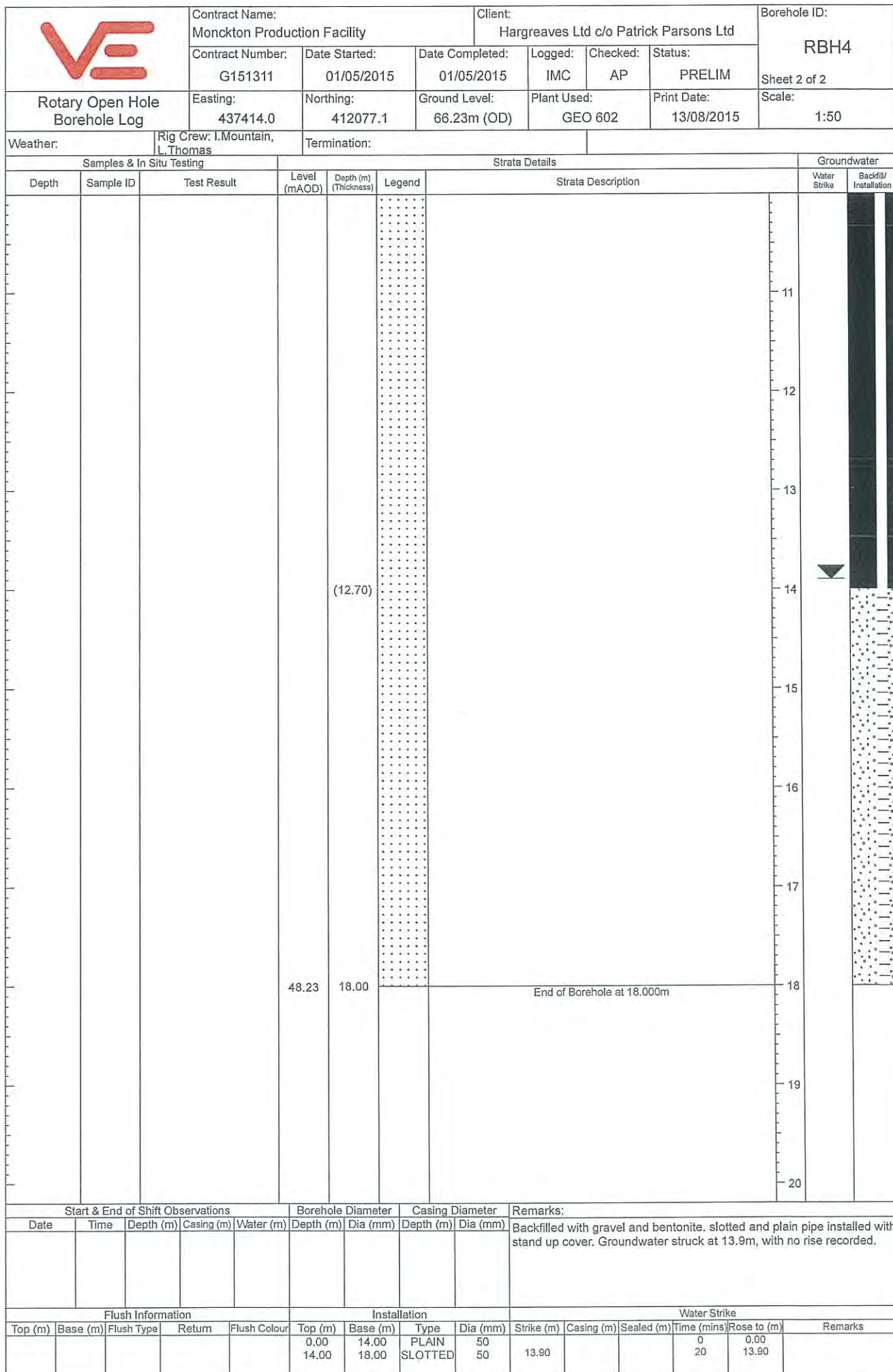
Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/Installation
			64.98	0.20		MADE GROUND - Coke fill.		
						MADE GROUND - Concrete.		
				(3.30)				
			61.68	3.50		MADE GROUND		
				(0.50)				
			61.18	4.00		Hard, broken SANDSTONE.		
				(11.00)				

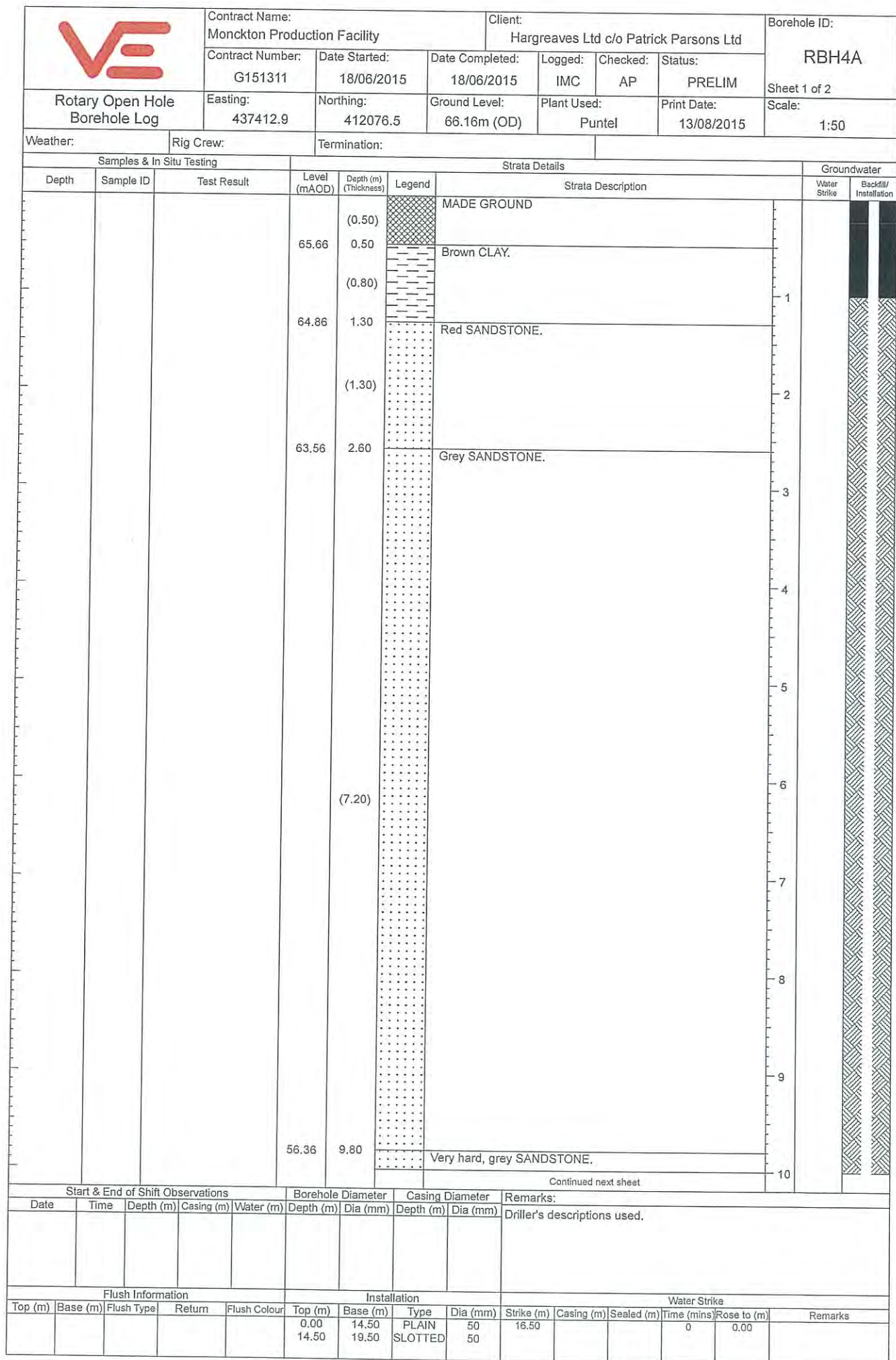
Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Driller's descriptions used	

Flush Information					Installation				Water Strike					
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	14.00	PLAIN	50	16.00			0	0.00	
					14.00	18.00	SLOTTED	50						

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	Contract Name: Monckton Production Facility				Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: RBH4						
	Contract Number: G151311	Date Started: 01/05/2015	Date Completed: 01/05/2015	Logged: IMC	Checked: AP	Status: PRELIM	Sheet 1 of 2							
Rotary Open Hole Borehole Log		Easting: 437414.0	Northing: 412077.1	Ground Level: 66.23m (OD)	Plant Used: GEO 602	Print Date: 13/08/2015	Scale: 1:50							
Weather:		Rig Crew: I.Mountain, L.Thomas		Termination:										
Samples & In Situ Testing				Strata Details										
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Groundwater							
						MADE GROUND (Drillers Description)	Water Strike	Backfill/ Installation						
			62.83	(3.40)			1							
							2							
							3							
			62.83	3.40		Brown weathered SANDSTONE (Drillers Description)	4							
				(1.90)			5							
			60.93	5.30		SANDSTONE (Drillers Description)	6							
							7							
							8							
							9							
							10							
Continued next sheet														
Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:					
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)						
									Backfilled with gravel and bentonite. slotted and plain pipe installed with stand up cover. Groundwater struck at 13.9m, with no rise recorded.					
Flush Information					Installation				Water Strike					
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	14.00	PLAIN	50	13.90			0	0.00	
					14.00	18.00	SLOTTED	50				20	13.90	





	Contract Name: Monckton Production Facility				Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: RBH4A						
	Contract Number: G151311	Date Started: 18/06/2015	Date Completed: 18/06/2015	Logged: IMC	Checked: AP	Status: PRELIM		Sheet 2 of 2						
Rotary Open Hole Borehole Log	Easting: 437412.9	Northing: 412076.5	Ground Level: 66.16m (OD)	Plant Used: Puntel	Print Date: 13/08/2015		Scale: 1:50							
	Weather:		Rig Crew:		Termination:									
Samples & In Situ Testing			Strata Details					Groundwater						
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description		Water Strike	Backfill/ Installation					
				(5.70)										
			50.66	15.50		Grey MUDSTONE.								
				(4.00)										
			46.66	19.50		End of Borehole at 19.500m								
Start & End of Shift Observations			Borehole Diameter		Casing Diameter		Remarks:							
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Driller's descriptions used.					
Flush Information					Installation				Water Strike					
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	14.50	PLAIN	50	16.50			0	0.00	
					14.50	19.50	SLOTTED	50						

		Contract Name: Monckton Production Facility				Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: RBH5						
		Contract Number: G151311	Date Started: 12/06/2015	Date Completed: 12/06/2015	Logged: IMC	Checked: AP	Status: PRELIM	Sheet 1 of 2							
Rotary Open Hole Borehole Log		Easting: 437471.1	Northing: 411825.9	Ground Level: 62.18m (OD)	Plant Used: Comacchio 305	Print Date: 13/08/2015	Scale: 1:50								
		Weather:		Rig Crew:	Termination:										
Samples & In Situ Testing										Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description				Water Strike	Backfill/ Installation				
			61.98	0.20		TOPSOIL									
			61.78	0.40 (0.30)		CONCRETE									
			61.48	0.70		Brown CLAY.									
						Brown MUDSTONE.									
										1					
										2					
										3					
										4					
										5					
										6					
										7					
										8					
										9					
										10					
			52.68	9.50 (0.50)		Black shaley MUDSTONE.									
			52.18	10.00											
										Continued next sheet					
Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:						
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Driller's descriptions used.						
Flush Information					Installation				Water Strike						
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks	
					0.00	12.00	PLAIN	50	14.00	13.00		0	0.00		
					12.00	16.00	SLOTTED	50							

	Contract Name: Monckton Production Facility			Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: RBH5	
	Contract Number: G151311	Date Started: 12/06/2015	Date Completed: 12/06/2015	Logged: IMC	Checked: AP	Status: PRELIM	Sheet 2 of 2	
Rotary Open Hole Borehole Log	Easting: 437471.1	Northing: 411825.9	Ground Level: 62.18m (OD)	Plant Used: Comacchio 305	Print Date: 13/08/2015	Scale: 1:50		
	Weather:		Rig Crew:		Termination:			
Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
				(2.00)		Grey SANDSTONE.	11	
			50.18	12.00		Grey MUDSTONE.	12	
				(4.00)			13	
							14	
							15	
			46.18	16.00		End of Borehole at 16.000m	16	
							17	
							18	
							19	
							20	
Start & End of Shift Observations			Borehole Diameter		Casing Diameter		Remarks:	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)
Flush Information			Installation				Water Strike	
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)
					0.00	12.00	PLAIN	50
					12.00	16.00	SLOTTED	50
Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks			
14.00	13.00		0	0.00				

		Contract Name: Monckton Production Facility			Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: BH301						
		Contract Number: G151311	Date Started: 08/06/2015	Date Completed: 09/06/2015	Logged: IMC	Checked: AP	Status: PRELIM	Sheet 1 of 3						
Rotary Open Hole Borehole Log		Easting: 437547.8	Northing: 412088.8		Ground Level: 68.25m (OD)		Plant Used: Comacchio 602		Print Date: 13/08/2015		Scale: 1:50			
Weather:		Rig Crew:		Termination:										
Samples & In Situ Testing				Strata Details							Groundwater			
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description					Water Strike	Backfill/ Installation		
			67.85	(0.40) 0.40		CONCRETE								
						SAND and GRAVEL.					1			
				(2.30)							2			
			65.55	2.70		Brown SANDSTONE.					3			
											4			
				(4.60)							5			
											6			
											7			
			60.95	7.30		Grey SANDSTONE.					8			
											9			
											10			
						Continued next sheet								
Start & End of Shift Observations					Borehole Diameter		Casing Diameter		Remarks:					
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Drillers descriptions used.					
Flush Information					Installation				Water Strike					
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	21.00	PLAIN	50	21.00	3.00		0	0.00	
					21.00	25.00	SLOTTED	50						

[illegible]

	Contract Name: Monckton Production Facility				Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: BH301						
	Contract Number: G151311	Date Started: 08/06/2015	Date Completed: 09/06/2015	Logged: IMC	Checked: AP	Status: PRELIM		Sheet 3 of 3						
Rotary Open Hole Borehole Log		Easting: 437547.8	Northing: 412088.8	Ground Level: 68.25m (OD)	Plant Used: Comacchio 602	Print Date: 13/08/2015	Scale: 1:50							
Weather:		Rig Crew:		Termination:										
Samples & In Situ Testing				Strata Details				Groundwater						
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description		Water Strike	Backfill/ Installation					
				(5.00)				21						
								22						
			45.25	23.00		Grey SANDSTONE.		23						
				(2.00)				24						
			43.25	25.00		End of Borehole at 25.000m		25						
								26						
								27						
								28						
								29						
								30						
Start & End of Shift Observations			Borehole Diameter		Casing Diameter		Remarks:							
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)	Drillers descriptions used.					
Flush Information				Installation				Water Strike						
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
					0.00	21.00	PLAIN	50	21.00	3.00		0	0.00	
					21.00	25.00	SLOTTED	50						