

Trial Pit Log

Trial Pit No
TP1023
Sheet 1 of 1

Project Name: Monckton Coke Works

Project No.
G15009

Co-ords: -
Level:

Date
16/03/2016

Location: Lund Hill Lane, Barnsley

Dimensions (m):

2.00

Depth
1.75

0.60

Scale
1:25

Logged
TD

Client: Hargreaves (UK) Services Ltd

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.25	ES		0.40			Greyish brown sandy angular fine to coarse GRAVEL of sandstone brick and concrete. Sand is fine to coarse. (MADE GROUND)	
	1.50	ES		1.75			Light brown reworked sandy angular fine to coarse GRAVEL of sandstone. Sand is fine to medium. (MADE GROUND)	1
							End of Pit at 1.75m	2
								3
								4
								5

Remarks: Trial pit complete at 1.75m bgl. No groundwater encountered. Backfilled with arisings upon completion.

Stability: Trial pit remained stable during excavation.



Trial Pit Log

Trial Pit No
TP1024
Sheet 1 of 1

Project Name: Monckton Coke Works

Project No.
G15009

Co-ords: -
Level:

Date
16/03/2016

Location: Lund Hill Lane, Barnsley

Dimensions (m):

2.00

Depth
0.75

0.60

Scale
1:25

Logged
TD

Client: Hargreaves (UK) Services Ltd

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.40	ES		0.20 0.30			Light brown silty sandy sub-angular fine to coarse GRAVEL of sandstone. Sand is fine to medium. (MADE GROUND)
							Light brown silty sandy sub-angular fine to coarse GRAVEL of sandstone. Sand is fine to medium. (MADE GROUND)
							Black sandy angular fine to medium GRAVEL of coke brick and concrete. Sand is fine. (MADE GROUND)
				0.75 0.75			Black sandy angular fine to medium GRAVEL of coke brick and concrete. Sand is fine. (MADE GROUND)
							End of Pit at 0.75m

Remarks: Trial pit complete at 0.75m bgl. No groundwater encountered. Backfilled with arisings upon completion.

Stability: Trial pit remained stable during excavation.



Project Name: Monckton Coke Works

Project No.
G15009

Co-ords: -
Level:

Date
16/03/2016

Location: Lund Hill Lane, Barnsley

Dimensions
(m):

2.00

Scale
1:25

Client: Hargreaves (UK) Services Ltd

Depth
2.20

0.60

 Logged TD |[illegible]

Remarks:	Trial pit complete at 2.20m bgl. No groundwater encountered. Backfilled with arisings upon completion.
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Stability: Trial pit remained stable during excavation.

				Trial Pit Log			Trial Pit No TP1026 Sheet 1 of 1		
Project Name: Monckton Coke Works				Project No. G15009		Co-ords: - Level:		Date 16/03/2016	
Location: Lund Hill Lane, Barnsley						Dimensions (m):		Scale 1:25	
Client: Hargreaves (UK) Services Ltd						Depth 1.00		Logged TD	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.70	ES		0.30			Greyish brown sandy angular fine to coarse GRAVEL of sandstone brick and concrete. Sand is fine to coarse. (MADE GROUND)		
				0.50			Reddish brown reworked sandy angular fine to coarse GRAVEL of sandstone. Sand is fine to medium. (MADE GROUND)		
							Medium strong reddish brown medium grained SANDSTONE recovered as sandy angular fine to coarse GRAVEL. (MEXBOROUGH ROCK)		
				1.00			End of Pit at 1.00m		
Remarks: Trial pit complete at 1.00m bgl. No groundwater encountered. Backfilled with arisings upon completion.									
Stability: Trial pit remained stable during excavation.									



Project Name: Monckton Coke Works

Project No.
G15009

Co-ords: -
Level:

Date
16/03/2016

Location: Lund Hill Lane, Barnsley

Dimensions
(m):

2.00

Scale
1:25

Client: Hargreaves (UK) Services Ltd

Depth
1.50

0.60

Logged
TD

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	1.00	ES		0.30		[Pattern]	Dark grey sub-angular fine to coarse GRAVEL of concrete and brick. (MADE GROUND)
				0.60		[Pattern]	Light brown clayey sandy angular fine to coarse GRAVEL of mudstone and sandstone. (MADE GROUND)
						[Pattern]	Black angular fine to coarse GRAVEL and COBBLES of brick concrete and coal. (MADE GROUND)
				1.50			End of Pit at 1.50m

[illegible]

Stability: Trial pit remained stable during excavation.



PATRICK PARSONS				Trial Pit Log				Trial Pit No TP1028 Sheet 1 of 1	
Project Name: Monckton Coke Works				Project No. G15009		Co-ords: - Level:		Date 16/03/2016	
Location: Lund Hill Lane, Barnsley						Dimensions (m): Depth 0.50		Scale 1:25	
Client: Hargreaves (UK) Services Ltd								Logged TD	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.45	ES		0.20 0.50 0.50		Concrete. (MADE GROUND) Light brown reworked sandy angular fine to coarse GRAVEL of sandstone brick and concrete. Sand is fine to medium. (MADE GROUND) Light brown reworked sandy angular fine to coarse GRAVEL of sandstone brick and concrete. Sand is fine to medium. (MADE GROUND)	End of Pit at 0.50m		
Remarks: Trial pit complete at 0.50m bgl. No groundwater encountered. Backfilled with arisings upon completion.									
Stability: Trial pit remained stable during excavation.									

Trial Pit Log

Trial Pit No
TP1030
Sheet 1 of 1

Project Name: Monckton Coke Works

Project No.
G15009

Co-ords: -
Level:

Date
17/03/2016

Location: Lund Hill Lane, Barnsley

Dimensions (m):

2.00

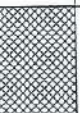
Depth
2.00

0.60

Scale
1:25

Logged
TD

Client: Hargreaves (UK) Services Ltd

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.40			Greyish brown angular fine to coarse GRAVEL of brick and concrete. (MADE GROUND)	
				1.30			Light brown and black reworked sandy gravelly CLAY. Gravel is sub-angular fine to coarse of sandstone. (MADE GROUND)	1
	1.50	ES		2.00			Firm brown sandy CLAY with occasional fine coal fragments. Sand is fine.	2
							End of Pit at 2.00m	3
								4
								5

Remarks: Trial pit complete at 2.00m bgl. No groundwater encountered. Backfilled with arisings upon completion.

Stability: Trial pit remained stable during excavation.

Trial Pit Log

Trial Pit No
TP1031
Sheet 1 of 1

Project Name: Monckton Coke Works

Project No.
G15009

Co-ords: -
Level:

Date
15/03/2016

Location: Lund Hill Lane, Barnsley

Dimensions (m):

2.00

Depth
2.00

0.60

Scale
1:25

Logged
TD

Client: Hargreaves (UK) Services Ltd

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.30			Black angular fine to coarse ashy GRAVEL of coke. (MADE GROUND)	
							Reddish and light brown clayey angular fine to coarse GRAVEL of sandstone mudstone and brick. (MADE GROUND)	
	1.60	ES						1
				2.00			End of Pit at 2.00m	2
								3
								4
								5

Remarks: Trial pit complete at 2.00m bgl. No groundwater encountered. Backfilled with arisings upon completion.



Stability: Trial pit remained stable during excavation.

Trial Pit Log

Trial Pit No
TP1032
Sheet 1 of 1

Project Name: Monckton Coke Works

Project No.
G15009

Co-ords: -
Level:

Date
15/03/2016

Location: Lund Hill Lane, Barnsley

Dimensions (m):

2.00

Depth
1.00

0.60

Scale
1:25

Logged
TD

Client: Hargreaves (UK) Services Ltd

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.50	ES		0.30			Black angular fine to coarse ashy GRAVEL of coke. (MADE GROUND)	
				1.00			Greyish brown angular fine to coarse GRAVEL of mudstone sandstone and brick with occasional coal fragments. (MADE GROUND)	
							End of Pit at 1.00m	1
								2
								3
								4
								5

Remarks: Trial pit complete at 1.00m bgl. No groundwater encountered. Backfilled with arisings upon completion.

Stability: Trial pit remained stable during excavation.



Trial Pit Log

Trial Pit No
TP1101
Sheet 1 of 1

Project Name: Monckton Coke Works

Project No.
G15009

Co-ords: -
Level:

Date
15/03/2016

Location: Lund Hill Lane, Barnsley

Dimensions (m):

Depth
3.00

0.60

2.00

Scale
1:25

Logged
TD

Client: Hargreaves (UK) Services Ltd

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.60			Black angular fine to coarse ashy GRAVEL of coke. (MADE GROUND)
	1.00	ES					Light brown silty sandy GRAVEL of mudstone and sandstone with occasional brick coal and metal. Sand is fine to coarse. (MADE GROUND)
				1.80			Pale yellow slightly gravelly fine to medium SAND.
	2.50	ES					
				3.00			End of Pit at 3.00m

Remarks: Trial pit complete at 3.00m bgl. No groundwater encountered. Backfilled with arisings upon completion.

Stability: Trial pit remained stable during excavation.

Trial Pit Log

Trial Pit No
TP1102
Sheet 1 of 1

Project Name: Monckton Coke Works

Project No.
G15009

Co-ords: -
Level:

Date
15/03/2016

Location: Lund Hill Lane, Barnsley

Dimensions (m):

Depth
1.00

0.60

2.00

Scale
1:25

Logged
TD

Client: Hargreaves (UK) Services Ltd

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.75	ES		0.30			Black angular fine to coarse ashy GRAVEL of coke. (MADE GROUND)
				0.60			Reddish brown sandy angular fine to coarse GRAVEL of brick with occasional wire. (MADE GROUND)
				1.00			Black angular fine to coarse GRAVEL of coal and brick. (MADE GROUND)
							End of Pit at 1.00m

Remarks: Trial pit complete at 1.00m bgl. No groundwater encountered. Backfilled with arisings upon completion.

Stability: Trial pit remained stable during excavation.



Trial Pit Log

Trial Pit No
TP1104
Sheet 1 of 1

Project Name: Monckton Coke Works

Project No.
G15009

Co-ords: -
Level:

Date
15/03/2016

Location: Lund Hill Lane, Barnsley

Dimensions (m):

2.00

Depth
1.50

0.60

Scale
1:25
Logged
TD

Client: Hargreaves (UK) Services Ltd

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	1.00	ES		1.50			Black angular fine to coarse ashy GRAVEL of coke with rare wood and metal fragments. (MADE GROUND) <i>Abandoned electricity cable at 0.50m bgl.</i> <i>Becomes slightly sandy from 0.50m bgl. Sand is fine to medium.</i> End of Pit at 1.50m	1 2 3 4 5

Remarks: Trial pit complete at 1.50m bgl. No groundwater encountered. Backfilled with arisings upon completion.

Stability: Trial pit remained stable during excavation.

PATRICK PARSONS				Trial Pit Log				Trial Pit No TP1105 Sheet 1 of 1	
Project Name: Monckton Coke Works				Project No. G15009		Co-ords: - Level:		Date 15/03/2016	
Location: Lund Hill Lane, Barnsley				Dimensions (m):		Depth 3.00		Scale 1:25 Logged TD	
Client: Hargreaves (UK) Services Ltd				Stratum Description					
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend			
	Depth	Type	Results						
				0.30			Dark grey angular fine to coarse ashy GRAVEL of coke. (MADE GROUND)		
				0.50			Reddish brown sandy angular fine to coarse GRAVEL of brick with occasional wire. (MADE GROUND)		
							Greyish brown angular fine to coarse GRAVEL of mudstone and brick. (MADE GROUND)		
	1.30	ES							
	2.90	ES			3.00		End of Pit at 3.00m		

Remarks: Trial pit complete at 3.00m bgl. No groundwater encountered. Backfilled with arisings upon completion.

Stability: Trial pit remained stable during excavation.

Summary of Ground Gas and Groundwater Monitoring

JOB DETAILS:

Client: Hargreaves
Site: Monkton Cokeworks
Date: 42486

Job No: G15009

Project Manager: JH



	GAS CONCENTRATIONS										VOLATILES		FLOW DATA		WELL AND WATER DATA					Comments	
Monitoring Point	Methane (%v/v)		Carbon dioxide (%v/v)		Carbon monoxide (%v/v)		Hydrogen sulphide (%v/v)		Oxygen (%v/v)		PID Peak (ppm)	Product thickness (mm)	Flow rate (l/hr)		Differential borehole Pressure (Pa)	Average Water level (m bgl)	Depth of well (m)	Reduced level (mAOD)	Water level (mAOD)		Response Zone
	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady			Peak	Steady							
BH305	0.00	0.00	4.50	4.50	0.00	0.00	0.00	0.00	15.70	15.70	0.10	0.00	0.00	0.00	0.00	9.06	0.00	0.00	-9.06	0	
BH301	0.00	0.00	2.10	2.10	0.00	0.00	0.00	0.00	12.70	12.70	0.00	0.00	0.00	0.00	0.00	8.79	0.00	0.00	-8.79	0	
RBH4	0.00	0.00	3.50	3.50	0.00	0.00	0.00	0.00	3.50	3.50	1.50	0.00	0.00	0.00	0.00	8.01	0.00	0.00	-8.01	0	
RBH4a	0.00	0.00	1.40	1.40	0.00	0.00	0.00	0.00	11.80	11.80	0.00	0.00	2.60	2.60	0.00	7.01	0.00	0.00	-7.01	0	
BH304	0.00	0.00	8.40	8.40	0.00	0.00	0.00	0.00	6.20	6.20	8.40	0.00	0.30	0.30	0.00	6.18	0.00	0.00	-6.18	0	
VSS	0.00	0.00	5.20	5.20	1.00	0.00	0.00	0.00	10.80	11.70	0.00	0.00	0.90	0.90	0.00	7.05	0.00	0.00	-7.05	0	
0	0.10	0.10	2.20	2.20	0.00	0.00	0.00	0.00	5.40	5.40	0.40	0.00	0.90	0.90	0.00	6.71	0.00	0.00	-6.71	0	
0	0.10	0.10	2.00	2.00	0.00	0.00	0.00	0.00	0.70	0.70	3.20	0.00	1.80	1.80	0.00	4.41	0.00	0.00	-4.41	0	
0	0.00	0.00	4.70	4.70	0.00	0.00	0.00	0.00	1.80	1.80	0.20	0.00	1.40	1.40	0.00	3.98	0.00	0.00	-3.98	0	
0	3.00	3.00	1.40	1.40	0.00	0.00	1.00	0.00	15.10	15.10	0.00	0.00	0.00	0.00	0.00	5.83	0.00	0.00	-5.83	0	
	0.00	0.00	2.20	2.20	0.00	0.00	0.00	0.00	18.80	18.80	0.00	0.00	0.00	0.00	0.00	5.09	0.00	0.00	-5.09	0	
	0.00	0.00	4.50	4.50	0.00	0.00	0.00	0.00	2.00	2.00	0.80	0.00	0.00	0.00	0.00	4.03	0.00	0.00	-4.03	0	
	0.00	0.00	3.50	3.50	0.00	0.00	0.00	0.00	15.60	16.70	0.70	0.00	0.00	0.00	0.00	5.90	0.00	0.00	-5.90	0	
Max	3.00	3.00	8.40	8.40	1.00	0.00	1.00	0.00	18.80	18.80	8.40	0.00	2.60	2.60	0.00	9.06	0.00	0.00	-9.06		
Min	0.00	0.00	1.40	1.40	0.00	0.00	0.00	0.00	0.70	0.70	0.00	0.00	0.00	0.00	0.00	3.96	0.00	0.00	-3.96		
GSV (l/hr)	0.078		0.1612																		

	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						
	Easting: 437547.8	Northing: 412088.8	Ground Level: 68.25m (OD)	Plant Used: Comacchio 602	Print Date: 13/08/2015		Scale: 1:50							
Rotary Open Hole Borehole Log														
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								
				(2.30)		SAND and GRAVEL.								
			65.55	2.70		Brown SANDSTONE.								
				(4.60)										
			60.95	7.30		Grey SANDSTONE.								
						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						



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 2 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:

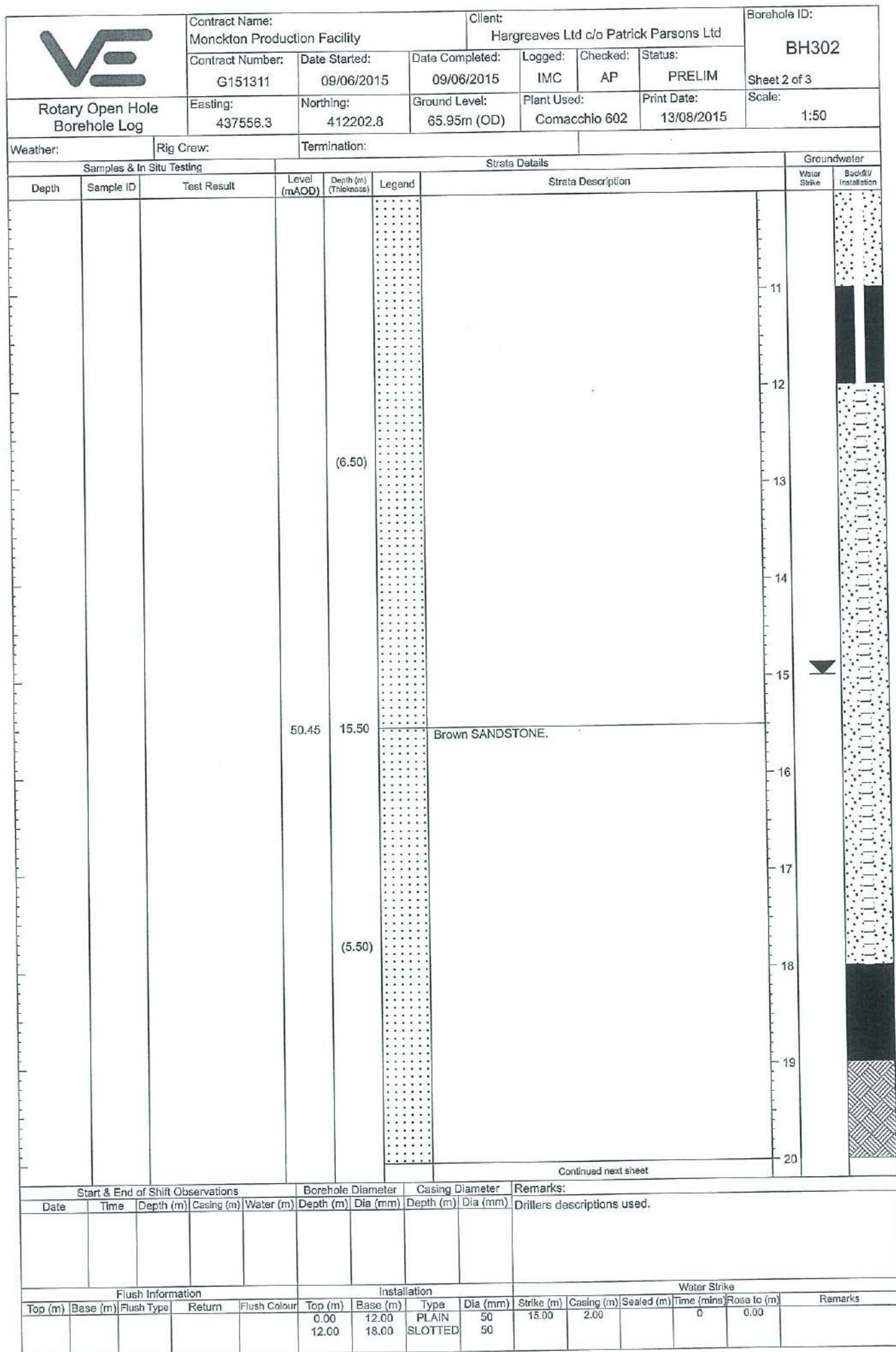
Termination:

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill Installation
				(10.70)			11	
							12	
							13	
							14	
							15	
							16	
							17	
			50.25	18.00		Grey MUDSTONE.	18	
							19	
							20	
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)
					0.00	21.00	PLAIN	50	21.00	3.00
					21.00	25.00	SLOTTED	50		
							Time (mins)	Rose to (m)	Remarks	
							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 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						
			45.25	23.00		Grey SANDSTONE.		22						
				(2.00)				23						
			43.25	25.00		End of Borehole at 25.000m		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)	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						

	Contract Name: Monckton Production Facility				Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: BH302					
	Contract Number: G151311	Date Started: 09/06/2015	Date Completed: 09/06/2015	Logged: IMC	Checked: AP	Status: PRELIM	Sheet 1 of 3						
	Easting: 437556.3	Northing: 412202.8	Ground Level: 65.95m (OD)	Plant Used: Comacchio 602	Print Date: 13/08/2015	Scale: 1:50							
Rotary Open Hole Borehole Log		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			
			65.75	0.20		MADE GROUND - Concrete.			1				
				(1.80)		SAND and GRAVEL.							
			63.95	2.00		Brown SANDSTONE.			2				
									3				
									4				
									5				
									6				
				(7.00)					7				
									8				
									9				
			56.95	9.00		Gray SANDSTONE.			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		Remarks		
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)		Sealed (m)	Time (mins)
					0.00	12.00	PLAIN	50	15.00	2.00		0	0.00
					12.00	18.00	SLOTTED	50					



	Contract Name: Monckton Production Facility				Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: BH302						
	Contract Number: G151311	Date Started: 09/06/2015	Date Completed: 09/06/2015	Logged: IMC	Checked: AP	Status: PRELIM	Sheet 3 of 3							
	Rotary Open Hole Borehole Log		Easting: 437556.3	Northing: 412202.8	Ground Level: 65.95m (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					
			44.95	21.00		Grey MUDSTONE.		21						
								22						
				(4.00)				23						
								24						
			40.95	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	12.00	PLAIN	50	15.00	2.00		0	0.00	
					12.00	18.00	SLOTTED	50						

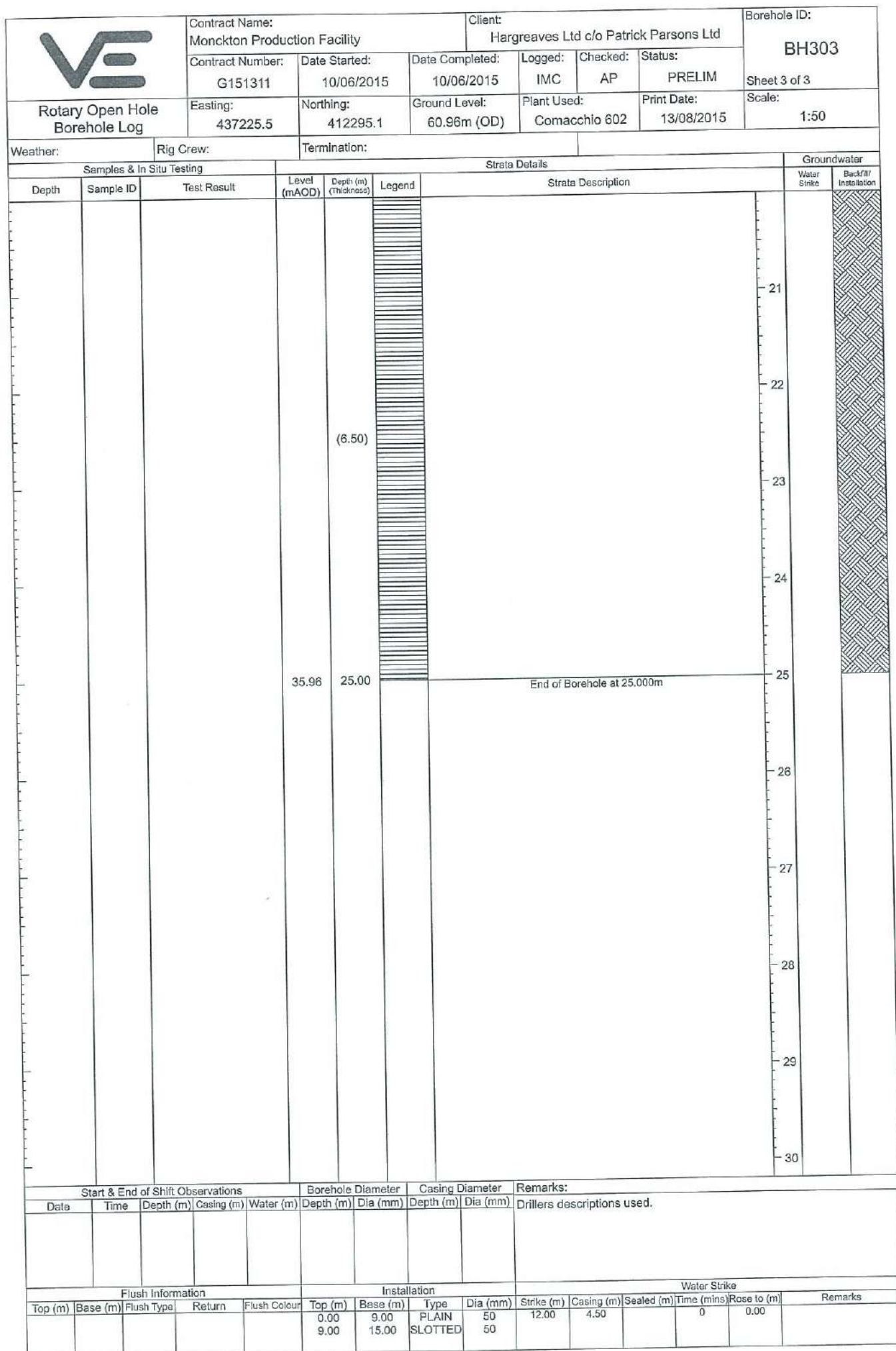
	Contract Name: Monckton Production Facility		Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: BH303	
	Contract Number: G151311	Date Started: 10/06/2015	Date Completed: 10/06/2015	Logged: IMC	Checked: AP	Status: PRELIM	Sheet 1 of 3
	Easting: 437225.5	Northing: 412295.1	Ground Level: 60.96m (OD)	Plant Used: Comacchio 602	Print Date: 13/08/2015	Scale: 1:50	
Rotary Open Hole Borehole Log		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
						MADE GROUND - Ash fill.	
			57.96	3.00		SAND and GRAVEL.	
			56.48	4.50		Brown SANDSTONE.	
				(7.70)			
Continued next sheet							10
Start & End of Shift Observations					Borehole Diameter		Casing Diameter
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)
Flush Information					Installation		Water Strike
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Strike (m)
					0.00	9.00	12.00
							Casing (m)
							4.50
							Sealed (m)
							Time (mins)
							Rose to (m)
							0
							0.00
							Remarks

	Contract Name: Monckton Production Facility				Client: Hargreaves Ltd c/o Patrick Parsons Ltd				Borehole ID: BH303					
	Contract Number: G151311		Date Started: 10/06/2015		Date Completed: 10/06/2015		Logged: IMC				Checked: AP		Status: PRELIM	
	Easting: 437225.5		Northing: 412295.1		Ground Level: 60.96m (OD)		Plant Used: Comacchio 602		Print Date: 13/08/2015		Scale: 1:50			
Rotary Open Hole Borehole Log			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
							11	
			48.76	12.20		Grey SANDSTONE.	12	
				(6.30)			13	
							14	
							15	
							16	
							17	
			42.46	18.50		Grey MUDSTONE.	18	
							19	
							20	
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				Remarks	
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)
					0.00	9.00	PLAIN	50	12.00	4.50			0	0.00
					9.00	15.00	SLOTTED	50						



	Contract Name: Monckton Production Facility				Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: BH304						
	Contract Number: G151311	Date Started: 11/06/2015	Date Completed: 11/06/2015	Logged: IMC	Checked: AP	Status: PRELIM		Sheet 1 of 2						
Rotary Open Hole Borehole Log		Easting: 437373.9	Northing: 412054.7	Ground Level: 65.51m (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					
						MADE GROUND - Ash fill.								
			64.01	1.50				1						
						Brown SANDSTONE.		2						
								3						
								4						
								5						
								6						
			59.01	6.50		Brown MUDSTONE.		7						
								8						
						Brown SANDSTONE.		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	1.50	PLAIN	50	4.00	1.50		0	0.00	
					1.50	6.50	SLOTTED	50						

	Contract Name: Monckton Production Facility		Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: BH304	
	Contract Number: G151311	Date Started: 11/06/2015	Date Completed: 11/06/2015	Logged: IMC	Checked: AP	Status: PRELIM	Sheet 2 of 2
Rotary Open Hole Borehole Log	Easting: 437373.9	Northing: 412054.7	Ground Level: 65.51m (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
			53.51	12.00			11	
						End of Borehole at 12.000m	12	
							13	
							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)	Drillers descriptions used.	

Flush Information					Installation				Water Strike				Remarks
Top (m)	Base (m)	Flush Type	Return	Flush Colour	Top (m)	Base (m)	Type	Dia (mm)	Strike (m)	Casing (m)	Sealed (m)	Time (mins)	
					0.00	1.50	PLAIN	50	4.00	1.50		0	0.00
					1.50	6.50	SLOTTED	50					

	Contract Name: Monckton Production Facility			Client: Hargreaves Ltd c/o Patrick Parsons Ltd			Borehole ID: BH305							
	Contract Number: G151311	Date Started: 11/06/2015	Date Completed: 11/06/2015	Logged: IMC	Checked: AP	Status: PRELIM	Sheet 1 of 3							
Rotary Open Hole Borehole Log		Easting: 437527.9	Northing: 411930.3	Ground Level: 70.37m (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					
			70.07	(0.30) 0.30		MADE GROUND - Concrete.								
						SAND and GRAVEL.								
				(1.70)				1						
			68.37	2.00		Brown SANDSTONE.		2						
								3						
								4						
								5						
				(7.00)				6						
								7						
								8						
			61.37	9.00		Gray MUDSTONE.		9						
				(1.30)				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	22.00	PLAIN	50	25.00	2.00		0	0.00	
					22.00	30.00	SLOTTED	50						

