

019/5003/AG/cc

12th November 2024

Mr J Scott
Britology
jonathan@britology.co.uk



Registered in England 07068066

Parkhill
Wetherby
West Yorkshire
LS22 5DZ

T 01937 545 330
www.lithos.co.uk

Dear Jonathan

Lower Edge Quarry – gas & groundwater monitoring results

We have undertaken the first of 12 monthly visits at Lower Edge Quarry to inform a landfill permit application, results of which are included in this letter.

This letter should be read in conjunction with the Factual Letter Report issued by Lithos on the 28th October 2024 (Ref. 017/5003/AG/cc).

Background

The site is located off Lower Edge Road, approximately 5.3km southeast of Halifax town centre and currently comprises an active quarry operated by Rand & Asquith. We understand the quarry is partially infilled with “stone, shale and pockets of fly ash”, however, in places the existing quarry void is c. 20m deep.

Lithos supervised the drilling of 5 rotary openhole boreholes between the 7th and 15th October 2024, to allow for the installation of dual gas and groundwater monitoring wells around the perimeter of the site. A total of 12 monthly visits will be undertaken to aid the application of a landfill permit. Details of the monitoring wells are listed below.

Monitoring well	Coordinates		Level	Installation	Response zone depths m bgl (m AOD)	Response zone lithology
	easting	northing				
BH01	412845.1	421374.6	160.149	19mm HDPE pipe	1.0 – 3.0 (159.15 – 157.15)	Quarry backfill
				50mm HDPE pipe	18.0 – 22.0 (142.15 – 138.15)	Quarry backfill
BH02	412729.9	421182.0	172.376	19mm HDPE pipe	1.0 – 3.0 (171.38 – 169.38)	Elland Flags
				50mm HDPE pipe	18.0 – 22.0 (154.38 – 150.38)	Elland Flags
BH03	412813.4	421106.3	177.696	19mm HDPE pipe	1.0 – 3.0 (176.70 – 174.70)	Granular Residual Soils
				50mm HDPE pipe	28.0 – 32.0 (149.70 – 145.70)	Elland Flags
BH04	412940.4	421050.0	176.317	19mm HDPE pipe	1.0 – 3.0 (175.32 – 173.32)	Quarry backfill
				50mm HDPE pipe	36.0 – 40.0 (140.32 – 136.32)	Possible Elland Flags
BH05	413013.5	421099.8	173.108	19mm HDPE pipe	1.0 – 3.0 (172.12 – 170.12)	Elland Flags
				50mm HDPE pipe	35.5 – 39.5 (137.61 – 133.61)	Elland Flags



Groundwater dip results

A total of two groundwater visits have been undertaken to determine the level of groundwater within the boreholes. Results are summarised below:

Date	Well	Groundwater level m bgl (m AOD)	Remarks
31/10/24	BH01	19.23	-
07/11/24		20.30	Bailed 8 Litres to 21.34m bgl at 09:39. Re-dipped at 20.41m bgl at 14:45
31/10/24	BH02	20.68	-
07/11/24		20.82	Bailed 11 litres to 22.05m bgl at 10:00. Re-dipped at 22.05m bgl at 14:40
31/10/24	BH03	>30.00	-
07/11/24		32.33	Bailed 2 litres to 32.61m bgl at 10:21. Re-dipped at 32.61m bgl at 14:38
31/10/24	BH04	>30.00	-
07/11/24		34.85	Bailed 33 litres to 37.49m bgl at 11:05. Re-dipped at 38.01m at 14:21.
31/10/24	BH05	28.66	-
07/11/24		29.08	Bailed 60 litres to 35.33m bgl at 14:15

The first monitoring visit was undertaken to assess the water level depths and allow for appropriate design of well development. Given the limited amount of water in most of the wells, 1 litre bailers were used to develop the wells on visit 2 undertaken on the 7th November 2024.

After an initial dip to record standing water level, the wells were bailed-out to establish an approximate rate of recharge and allow for well development during Visit 2 (7th November 2024). Findings were:-

- BH01: Removal of 8 litres resulted in lowering the water level by 1.04 m (from 20.30m to 21.34m bgl). Recharge was moderate; the water level recovered over 5 hours. (Note: In a 50mm diameter well pipe there is approximately 2 litres of water per metre of water column).
- BH02: Removal of 11 litres resulted in lowering the water level by 0.77m (from 20.82m to 20.05m bgl). Recharge did not occur; the water level did not recover.
- BH03: removal of 2 litres resulted in lowering the water level by 0.28m (from 32.33m to 32.6m bgl). Recharge did not occur; the water level did not recover.
- BH04: removal of 33 litres resulted in lowering the water level by 4.53m (from 34.85m to 39.38m bgl). Recharge was moderate; the water level recovered to 38.01 m bgl (1.37m) in 2.5 hours.
- BH05: Removal of 60 litres resulted in lowering the water level by 4.06m (from 29.08m to 33.14m bgl). Recharge was not monitored due to time constraints and fading light during fieldwork, however, it is thought the well was recharging at a moderate pace as water was being bailed.

It is apparent from the above that permeability of the ground is quite high in BH04 & BH05 located in the southeast of site. Groundwater levels are considered to be reflective of the true water table (rather than "trapped" waters associated with drilling or surface water run-off).

Groundwater samples are required monthly to aid the landfill permit application, however, it is anticipated that sample recovery will only be possible in BH04 & BH05 and perhpas BH01. Given the lack of recharge in BHs 02 & 03, it is unlikely that samples will be recovered during further monitoring visits.

Gas monitoring results

A standard procedure was followed in accordance with CIRIA guidance; this procedure involved measurement, in the following order of:

- Atmospheric temperature, pressure and ambient oxygen concentration on site immediately prior to and on completion of monitoring

- Methane, oxygen and carbon dioxide concentrations and flow rates using a Gas Data GFM436 infra-red gas analyser
- Standing water level using a dipmeter

The monitoring results from visit 1 of 12 are enclosed and summarised in the table below.

Well		Response zone	Range of methane concentrations (% v/v)	Range of carbon dioxide concentrations (% v/v)	Range of steady flow rates (litre/hour)
BH01	50mm	Quarry backfill	ND	ND	ND
	19mm	Quarry backfill	ND	0.5	ND
BH02	50mm	Elland Flags	ND	0.5	ND
	19mm	Elland Flags	ND	ND	ND
BH03	50mm	Granular Residual Soils	ND	ND	ND
	19mm	Elland Flags	ND	1.5	ND
BH04	50mm	Quarry backfill	ND	0.4	ND
	19mm	Possible Elland Flags	ND	ND	ND
BH05	50mm	Elland Flags	ND	ND	ND
	19mm	Elland Flags	ND	ND	ND

Note: Atmospheric pressures varied between 1007mb and 1035mb.

During this visit, atmospheric pressure fell slightly in the morning but began to rise in the afternoon. Atmospheric pressures ranged from 1007mb to 1035mb across the day.

Should you require any further information, please contact the undersigned.

Yours sincerely



Adam Gombocz
Director
for and on behalf of
LITHOS CONSULTING LIMITED

Encl.

Gas & Groundwater monitoring data – visit 1
Drawing 5003/6 BH location plan
Borehole logs

Visit 1

Job Title:

Quarry at Rastrick, Brighthouse

Client:

Britology

Date:

07/11/2024

Arrival Time:

08:45

Depart Time:

14:45

Operator:

George Costley

Job No:

5003

Sheet :

1 of 1

LITHOS
CONSULTING

Gas Monitoring Results:

Ambient Concentration (% Volume):

CH₄:

ND

CO₂:

ND

O₂:

18.8

Monitoring Point	Groundwater level	Concentrations					Gas Flow Rates			Bottom of well	Remarks
		Initial / Highest		Steady concentrations		Lowest concn	Initial / Maximum	Steady	Time to fall from highest to steady		
		CH ₄	CO ₂	CH ₄	CO ₂	O ₂					
		% v/v	(%)	% v/v	(%)	(%)					
	(m) bgl						litre/hr	litre/hr	secs	m	
BH01 (50mm)	20.30	ND	ND	ND	ND	17.4	ND	ND	120.0	22.39	Bailed 8L, re-dippd at 9:39 = 21.34 & 14:45 = 20.41 (Recharging)
BH02 (50mm)	20.82	ND	0.5	ND	0.5	19.0	ND	ND	120.0	22.72	Bailed 11L, re-dipped at 10:00 = 22.05 & 14:40 = 22.05 (Not Recharging)
BH03 (50mm)	32.33	ND	ND	ND	ND	19.1	2.5	ND	120.0	33.58	Bailed 2L, re-dipped at 10:21 = 32.61 & 14:38 = 32.61 (Not Recharging)
BH04 (50mm)	34.85	ND	0.4	ND	0.4	18.2	-1.5	ND	120.0	41.02	Bailed 33L, re-dipped at 11:05 = 37.49 & 11:40 = 39.38 & 14:21 = 38.01 (Recharging)
BH05 (50mm)	29.08	ND	ND	ND	ND	19.0	-1.5	ND	120.0	40.29	Bailed 60L, re-dipped at 13:03 = 33.14 & 14:15 = 35.33 (Recharging)
BH01 (19mm)	NR	ND	0.5	ND	0.5	17.7	ND	ND	120.0	NR	
BH02 (19mm)	NR	ND	ND	ND	ND	19.1	-1.5	ND	120.0	NR	
BH03 (19mm)	NR	ND	1.5	ND	1.5	17.8	ND	ND	120.0	NR	
BH04 (19mm)	NR	ND	ND	ND	ND	18.9	ND	ND	120.0	NR	
BH05 (19mm)	NR	ND	ND	ND	ND	19.0	-0.3	ND	120.0	NR	

Equipment Used:

Gas Data GFM436 Infrared Gas Analyser
Geotechnical Instruments Dipmeter

Next Calibration Date

27/03/2025

Key

ND

None Detected

NR

Not Recorded

1.0

Recorded value does not breach trigger levels

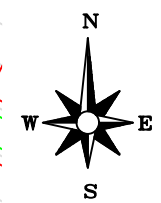
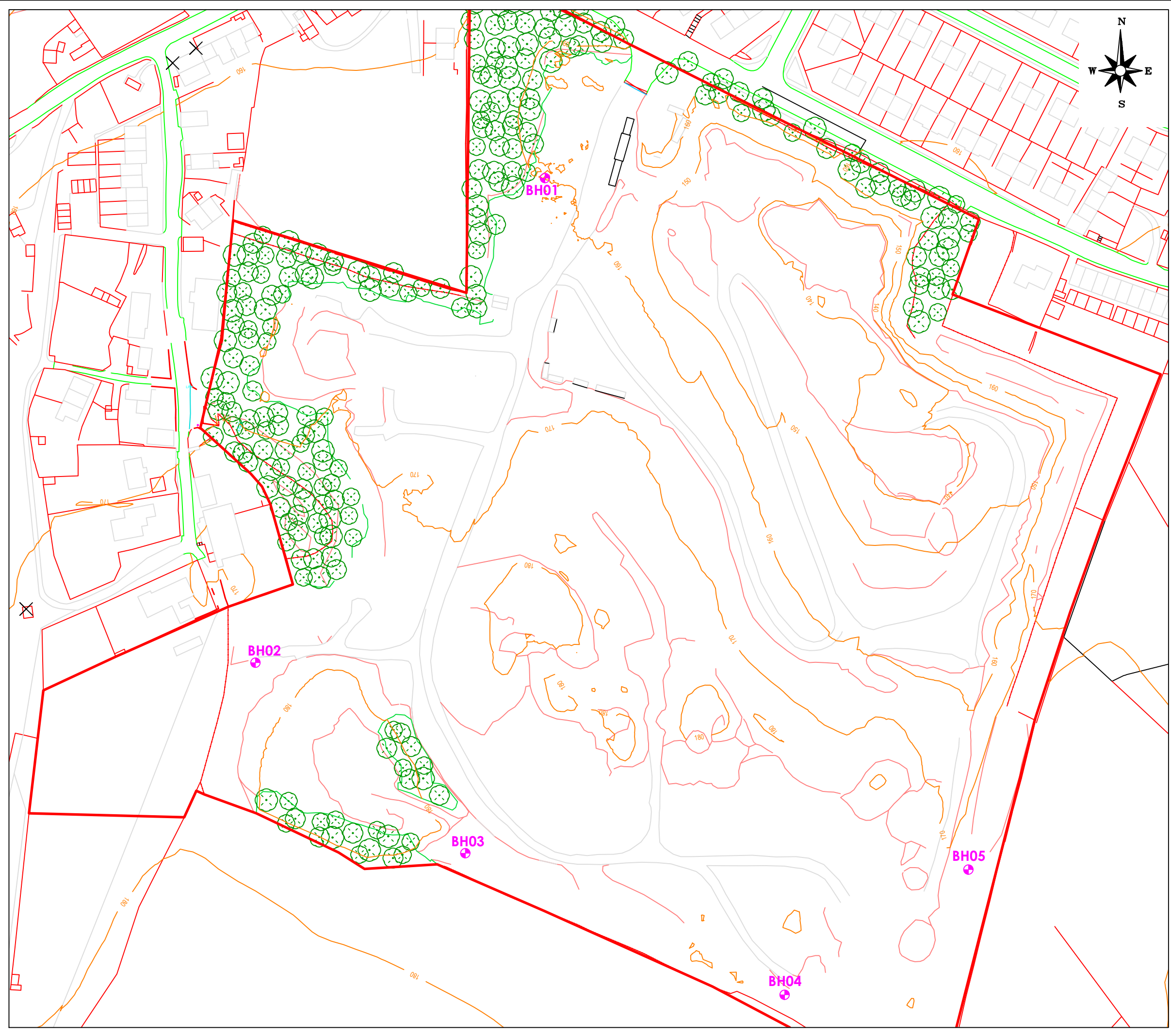
5.0

Recorded value breaches trigger level 1

10.0

Recorded value breaches trigger level 2

	Site Data:			Weather Station Data (Ganton Weather Station)							CH ₄	CO ₂	O ₂
	Temp (°C):	7.4 > 9.1		Barometric Pressure Trend:			Falling						
Time:	08:45	10:00	14:45	00:02	06:45	08:45	10:00	14:45	16:45	Trigger level 1	1.0	5.0	16.0
Pressure (mb):	1010	1007	1008	1035	1033	1034	1035	1033	1033	Trigger level 2	5.0	10.0	10.0
	Weather Conditions:			Overcast, Cold									
	Surface Ground Conditions:			Wet									
Remarks:	Ganton Weather station is located approximately 2 miles south from the site (Quarry at Rastrick, Brighthouse)												



NOTES

 BOREHOLE LOCATION

 APPROXIMATE SITE BOUNDARY

EXPLORATORY HOLE LOCATIONS HAVE BEEN SURVEYED
IN (COORDINATES & GROUND LEVEL) ON COMPLETION

REV.	DESCRIPTION	DATE



info@lithos.co.uk
www.lithos.co.uk
Tel 01937 545330

CLIENT

BRITOLOGY

JOB TITLE

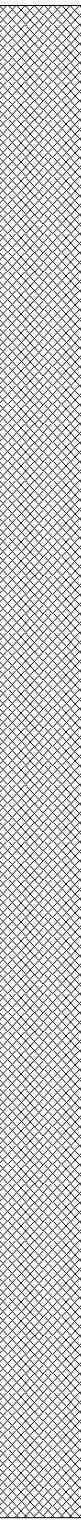
QUARRY NEAR
RASTRICK,
BRIGHOUSE

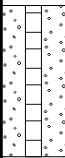
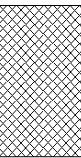
DRAWING TITLE

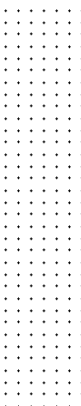
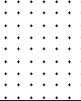
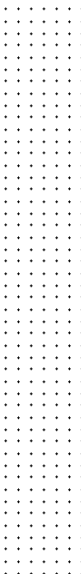
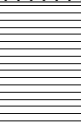
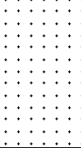
EXPLORATORY HOLE LOCATIONS

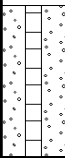
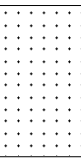
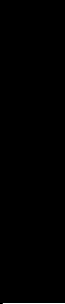
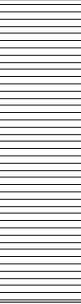
DRAWN	LEW	DATE	16 10 2025	STATUS	FOR COMMENT ☐
CHECKED	AG	DATE	16 10 2025	FOR APPROVAL	☐
				DRAFT	☐
				FINAL	☒

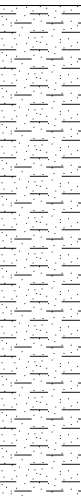
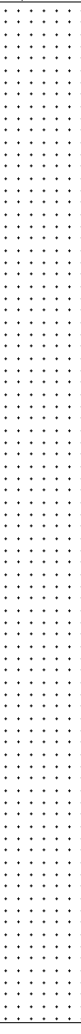
SCALE	1:1500	SHEET	A3	DRAWING NO.	5003/6	REVISION	
-------	--------	-------	----	-------------	--------	----------	--

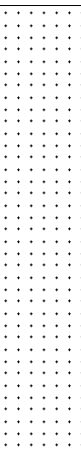
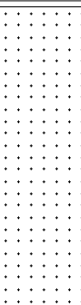
					Borehole Log			Borehole No. BH01 Sheet 1 of 2			
Project Name: Quarry at Rastrick					Project No. 5003		Co-ords: 412845.06 - 421374.61		Hole Type PH		
Location: Rastrick					Level: 160.15		Scale 1:100		Logged By CC		
Client: Britology					Dates: 15/10/2024 - 15/10/2024						
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
		Depth (m)	Type	Results							
								MADE GROUND: Light brown QUARRY BACKFILL. Recovered as sandstone with occasional flecks of mudstone. (QUARRY BACKFILL)	1		
									2		
										3	
										4	
										5	
										6	
										7	
										8	
										9	
										10	
										11	
										12	
										13	
										14	
										15	
										16	
										17	
										18	
										19	
										20	
Continued on next sheet											
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not encountered. 3. Exploratory hole surveyed in (level and co-ordinates) on completion.											

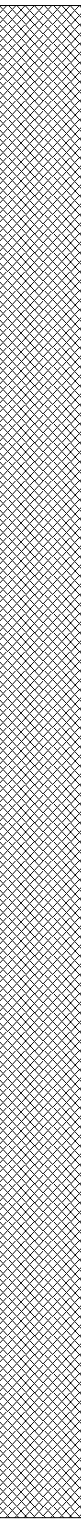
					Borehole Log			Borehole No. BH01 Sheet 2 of 2			
Project Name: Quarry at Rastrick					Project No. 5003		Co-ords: 412845.06 - 421374.61		Hole Type PH		
Location: Rastrick					Level: 160.15		Scale 1:100		Logged By CC		
Client: Britology					Dates: 15/10/2024 - 15/10/2024						
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
		Depth (m)	Type	Results							
					22.00	138.15		End of borehole at 22.00 m	21		
									22		
									23		
									24		
									25		
									26		
									27		
									28		
									29		
									30		
									31		
									32		
									33		
									34		
									35		
									36		
									37		
									38		
									39		
									40		
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not encountered. 3. Exploratory hole surveyed in (level and co-ordinates) on completion.											

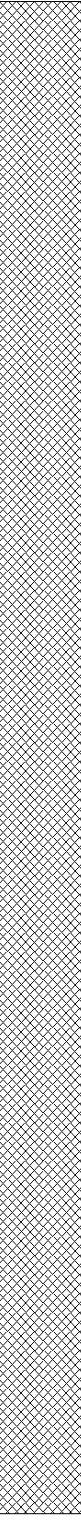
				Borehole Log				Borehole No. BH02 Sheet 1 of 2		
Project Name: Quarry at Rastrick				Project No. 5003		Co-ords: 412729.92 - 421181.99		Hole Type PH		
Location: Rastrick				Level: 172.40		Scale 1:100		Logged By CC		
Client: Britology				Dates: 07/10/2024 - 07/10/2024						
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
					1.50	170.90		Overburden. (GRANULAR RESIDUAL SOIL)	1	
									Light brown SANDSTONE. (ELLAND FLAGS)	2
										3
										4
										5
										6
										7
										8
										9
										10
					7.00	165.40		Interbedded SANDSTONE and MUDSTONE. (ELLAND FLAGS)	7	
					8.40	164.00		Light brown SANDSTONE. (ELLAND FLAGS)	8	
								<i>Between 12.4m and 15.4m depth, loss of flush.</i>	9	
									10	
									11	
									12	
									13	
									14	
									15	
					16.30	156.10		Dark grey MUDSTONE. (ELLAND FLAGS)	16	
								<i>Between 17.3m and 20.3m, water strike. Exact depth of strike difficult to determine.</i>	17	
					18.00	154.40		Light brown SANDSTONE with fine bands of dark grey MUDSTONE. (ELLAND FLAGS)	18	
									19	
									20	
Continued on next sheet										
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater encountered between 17.3m and 20.3m depth. 3. Flush returns were lost from 12.4m and 15.4m depth. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.										
										

					Borehole Log			Borehole No. BH02 Sheet 2 of 2	
Project Name: Quarry at Rastrick					Project No. 5003		Co-ords: 412729.92 - 421181.99		Hole Type PH
Location: Rastrick					Level: 172.40		Scale 1:100		Logged By CC
Client: Britology					Dates: 07/10/2024 - 07/10/2024				
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					22.00	150.40		Dark grey MUDSTONE. (ELLAND FLAGS)	21
									23
									25
					26.00	146.40		End of borehole at 26.00 m	27
									29
									31
									33
									35
									37
									39
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater encountered between 17.3m and 20.3m depth. 3. Flush returns were lost from 12.4m and 15.4m depth. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.									

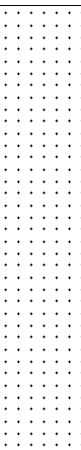
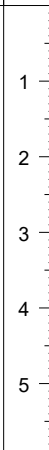
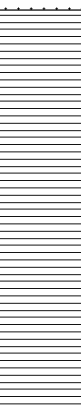
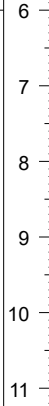
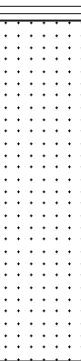
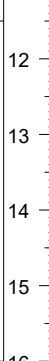
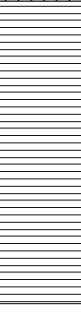
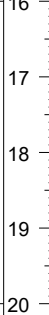
					Borehole Log			Borehole No. BH03 Sheet 1 of 2			
Project Name: Quarry at Rastrick					Project No. 5003		Co-ords: 412813.40 - 421106.28		Hole Type PH		
Location: Rastrick					Level: 177.70		Scale 1:100		Logged By CC		
Client: Britology					Dates: 08/10/2024 - 09/10/2024						
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
		Depth (m)	Type	Results							
					6.50	171.20		Overbuden. (GRANULAR RESIDUAL SOIL)	1		
									2		
									3		
									4		
									5		
									6		
								Light brown SANDSTONE with occasional bands of dark grey MUDSTONE. (ELLAND FLAGS)	7		
									8		
									9		
									10		
									11		
									12		
									13		
									14		
									15		
									16		
									17		
									18		
									19		
									20		
Continued on next sheet											
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not encountered. 3. Exploratory hole surveyed in (level and co-ordinates) on completion.											

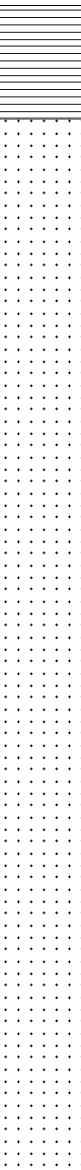
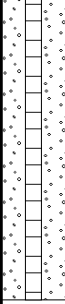
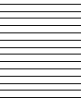
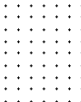
					Borehole Log			Borehole No. BH03 Sheet 2 of 2			
Project Name: Quarry at Rastrick					Project No. 5003		Co-ords: 412813.40 - 421106.28		Hole Type PH		
Location: Rastrick					Level: 177.70		Scale 1:100		Logged By CC		
Client: Britology					Dates: 08/10/2024 - 09/10/2024						
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
		Depth (m)	Type	Results							
										21	
										22	
										23	
										24	
										25	
					26.00	151.70		Dark grey MUDSTONE. (ELLAND FLAGS)		26	
					27.00	150.70		Interbedded SANDSTONE and MUDSTONE. (ELLAND FLAGS)		27	
										28	
										29	
										30	
					31.00	146.70		Dark grey MUDSTONE. (ELLAND FLAGS)		31	
										32	
					32.40	145.30		End of borehole at 32.40 m		33	
										34	
										35	
										36	
										37	
										38	
										39	
										40	
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not encountered. 3. Exploratory hole surveyed in (level and co-ordinates) on completion.											

					Borehole Log			Borehole No. BH04 Sheet 1 of 3			
Project Name: Quarry at Rastrick					Project No. 5003		Co-ords: 412940.37 - 421050.00		Hole Type PH		
Location: Rastrick					Level: 176.30		Scale 1:100		Logged By CC		
Client: Britology					Dates: 10/10/2024 - 10/10/2024						
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
		Depth (m)	Type	Results							
								MADE GROUND: Light brown QUARRY BACKFILL. Recovered as a light brown sandstone with occasional bands of dark grey mudstone. (QUARRY BACKFILL)	1		
									2		
									3		
									4		
									5		
									6		
									7		
									8		
									9		
									10		
									11		
									12		
									13		
									14		
									15		
									16		
									17		
									18		
									19		
									20		
Continued on next sheet											
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not encountered. 3. Flush returns were lost from 40.0m and 44.5m depth. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.											

					Borehole Log			Borehole No. BH04 Sheet 2 of 3			
Project Name: Quarry at Rastrick					Project No. 5003		Co-ords: 412940.37 - 421050.00		Hole Type PH		
Location: Rastrick					Level: 176.30		Scale 1:100		Logged By CC		
Client: Britology					Dates: 10/10/2024 - 10/10/2024						
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
		Depth (m)	Type	Results							
								)	21		
									22		
									23		
									24		
									25		
									26		
									27		
									28		
									29		
									30		
									31		
									32		
									33		
									34		
									35		
									36		
									37		
									38		
									39		
									40		
Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not encountered. 3. Flush returns were lost from 40.0m and 44.5m depth. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.											

					Borehole Log			Borehole No. BH04 Sheet 3 of 3			
Project Name: Quarry at Rastrick					Project No. 5003		Co-ords: 412940.37 - 421050.00		Hole Type PH		
Location: Rastrick					Level: 176.30		Scale 1:100		Logged By CC		
Client: Britology					Dates: 10/10/2024 - 10/10/2024						
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
		Depth (m)	Type	Results							
					44.50	131.80		Soft drilling, limited flush returns. Possible mudstone?			
								End of borehole at 44.50 m			
Remarks											
1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not encountered. 3. Flush returns were lost from 40.0m and 44.5m depth. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.											
											

					Borehole Log			Borehole No. BH05 Sheet 1 of 2					
Project Name: Quarry at Rastrick					Project No. 5003		Co-ords: 413013.46 - 421099.76		Hole Type PH				
Location: Rastrick					Level: 173.10		Scale 1:100		Logged By CC				
Client: Britology					Dates: 14/10/2024 - 14/10/2024								
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description					
		Depth (m)	Type	Results									
					6.00	167.10		Light brown SANDSTONE. (ELLAND FLAGS)					
						11.50	161.60		Dark grey MUDSTONE. (ELLAND FLAGS)				
						16.00	157.10		Light brown SANDSTONE. (ELLAND FLAGS)				
									Dark grey MUDSTONE. (ELLAND FLAGS)				
		Continued on next sheet											
		Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not encountered. 3. Exploratory hole surveyed in (level and co-ordinates) on completion.											
													

					Borehole Log			Borehole No. BH05 Sheet 2 of 2									
Project Name: Quarry at Rastrick					Project No. 5003		Co-ords: 413013.46 - 421099.76		Hole Type PH								
Location: Rastrick					Level: 173.10		Scale 1:100		Logged By CC								
Client: Britology					Dates: 14/10/2024 - 14/10/2024												
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description									
		Depth (m)	Type	Results													
					21.50	151.60		Light brown SANDSTONE. (ELLAND FLAGS)	21								
									22								
									23								
									24								
									25								
									26								
									27								
									28								
									29								
									30								
					35.50	137.60		Dark grey MUDSTONE. (ELLAND FLAGS)	35								
									36								
									37.00	136.10		Interbedded SANDSTONE and MUDSTONE. (ELLAND FLAGS)	37				
													38				
									38.50	134.60		Dark grey MUDSTONE. (ELLAND FLAGS)	39				
													40				
									End of borehole at 39.50 m								
									Remarks 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not encountered. 3. Exploratory hole surveyed in (level and co-ordinates) on completion.								
																	