

Teddington Direct River Abstraction

Preliminary Environmental Information Report Appendix 10.1 – Phase 1 Ground Investigation Interim Ground Investigation Factual Report

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Appendix 10.1 – Phase 1 Ground Investigation Interim Ground Investigation Factual Report

A.1 Introduction

A.1.1 This Phase 1 Ground Investigation Interim Factual Report outlines the key geoenvironmental findings of the ongoing Phase 1 Ground Investigation (GI) based on the information received up to the 25 February 2025, when this appendix began production.

A.2 Ongoing Phase 1 GI

A.2.1 The ongoing programme of GI commenced on 28 August 2024 and is currently scheduled to be completed on the 23 May 2025 (provisional). A second phase of GI (Phase 2), comprising of two additional boreholes, MT-034-35 and MT-035-35, will commence immediately after the first phase of GI (Phase 1). The locations of the boreholes from both Phase 1 and Phase 2 are shown on Figure 10.3.

Purpose of the GI

- A.2.2 Undertake a geotechnical, geo-environmental and hydrogeological assessment of the nature, thickness and distribution of the geological sequence, including groundwater and ground gas conditions. This is to enable the design of the proposed structures within Mogden sewage treatment works (STW) at the northern end of the proposed route, and along the proposed conveyance route options for tunnelling and pipejacking, for suitably positioning the drive shaft, interception shaft, intermediate shaft, reception shaft, connection shaft and the Thames Lee Tunnel (TLT) connection and to assess the ground conditions at the proposed intake and outfall structure locations at the southern end;
- A.2.3 Understand and assess Made Ground (MG) along the proposed route (principally at the construction sites), including reworked ground and potential landfilled materials, to assess composition and identify potential contamination;
- A.2.4 Produce factual data to characterise the ground conditions of both soils and rocks using sample descriptions and in-situ tests carried out in the exploratory boreholes, and to identify the presence of shallow groundwater and/or perched groundwater, including chemical composition;
- A.2.5 Undertake geotechnical and geo-environmental laboratory testing to confirm soil parameters and identify the potential for the presence of contaminants;
 - a. Collect in-situ geotechnical test data;
 - b. Collect in-situ permeability test data; and,
 - c. Install groundwater and ground gas monitoring wells to undertake a schedule of in-situ monitoring.

Scope of the GI

- A.2.6 The scope of the ongoing Phase 1GI for the Teddington Direct River Abstraction (TDRA, hereafter referred to as the Project) outlined in the GI Specification 'B22849AP-GEO-SPE-002 (Rev.5)'1as follows:
 - a. Two boreholes advanced sub-horizontally through the eastern embankment at Mogden STW to determine the embankment structure and undertake insitu testing and sampling;
 - b. Two boreholes, advanced initially through the superficial deposits using cable percussive techniques and then within the London Clay Formation to a provisional maximum depth of 25.0 metres below ground level (mbgl) to determine the ground conditions for the proposed pipejack connection between Burnell Avenue and the TLT;
 - c. A total of 16 boreholes, advanced initially through the superficial deposits using cable percussive techniques, extended by dynamic sampling / rotary coring within the London Clay Formation to a provisional maximum depth of 90m bgl, to determine the ground conditions along the proposed conveyancing route. Selected boreholes will prove the top of the underlying Lambeth Group;
 - d. Single and dual installations for groundwater and ground gas monitoring in selected boreholes;
 - e. In-situ Standard Penetration Tests (SPT);
 - f. Hand shear vane tests on cohesive material encountered within hand excavated inspection pits;
 - Pressuremeter testing to determine the in-situ strength and elastic modulus of the London Clay Formation in selected boreholes at the proposed shaft locations;
 - h. Variable head permeability testing;
 - i. Long-term in-situ groundwater monitoring proposed within the six months allowable period for the borehole to be drilled, decommissioned and reinstated at each location. This will be undertaken to understand local groundwater conditions by the use of dataloggers;
 - j. Bulk and disturbed soil sampling for geotechnical and geo-environmental purposes;
 - k. Geotechnical and geo-environmental laboratory testing;
 - I. In-situ groundwater sampling and gas monitoring during six (provisional) groundwater sampling visits; and
 - m. Preparation of GI reports including an account of the field and laboratory test results obtained and the methodologies used

¹ Jacobs UK Ltd, "Specification for a Ground Investigation for the Thames Water, London Water Recycling SRO - West London Route Rev 5 'B22849AP-GEO-SPE-002," 2024.

Summary of GI Works to date

A.2.7 Figure 10.3 shows the borehole locations for this phase of GI. Draft borehole logs for the boreholes completed as of 25 February 2025 are presented in Section Annex A1.

Boreholes

- A.2.8 As of the 25 February 2025, two sub-horizontal boreholes (MT-003and MT-004) through the eastern embankment structure at Mogden STW, and 11 of the 16 scheduled vertical boreholes along the proposed conveyancing route and at certain proposed structures have been completed. The borehole construction programme and location of each borehole has been led by land access and associated approvals, whilst the requirements for fencing, security and reinstatement of each borehole drilling compound have been controlled in accordance with local constraints and obligations.
- A.2.9 Draft borehole logs have been provided by the GI contractor, Geo-Environmental Services Limited (GESL), and are included in Section Annex A1.
 . It should be noted that the borehole logs provided by GESL are preliminary and may be updated at the Environmental Statement stage. The termination depths of the completed boreholes are shown in Section Annex A1.

BH ID	Depth to Base (m bgl)	Proposed Structure
MT-003	14.7 (horizontal)	Interception shaft Mogden STW Eastern Work Area
MT-004	10.5 (horizontal)	Interception shaft Mogden STW Eastern Work Area
MT-005	67.0	Interception shaft Mogden STW Eastern Work Area
MT-009	40.5	Tunnel Conveyance
MT-017a	60.0	Connection shaft Burnell Avenue
MT-019-35	81.0	Drive Shaft Mogden STW Western Work Area
MT-022-35	67.5	Tunnel Conveyance
MT-025-35	62.3	Intermediate shaft Ham Playing Fields
MT-026-35	8.5	Tunnel Conveyance
MT-027-35	36.0	Tunnel Conveyance
MT-028-35	31.5	Tunnel Conveyance
MT-030-35	45.0	Tunnel Conveyance
MT-031-35	25.5	TLT connection tunnel

Table A.1 Termination Depths of Completed Boreholes

Geo-environmental Testing

A.2.10 Results for 22 soil samples submitted for geo-environmental testing have been received as of 25 February 2025. These samples have been tested for a range of determinands as shown in Section Annex A1. . The samples were submitted to i2 Analytical Ltd, a Monitoring Certification Scheme (MCERT) and United Kingdom Accreditation Service (UKAS) accredited laboratory. The results are discussed in Section Annex A1. . No ground gas monitoring or groundwater monitoring or chemical data had been received by 25 February 2025.

Suite	Determinands	Tests Received as of 25 February 2025
Modified Suite E (Soil)	Metals: arsenic, barium, beryllium, boron, cadmium, chromium (III & VI), copper, iron, lead, manganese, mercury, molybdenum, nickel, selenium, vanadium, zinc Total organic carbon, phenol, sulphate, soil organic matter, moisture content, total & free cyanide, thiocyanate, ammoniacal nitrogen, pH, and asbestos screen, identification & quantification Total petroleum hydrocarbons speciated by aliphatic and aromatic fractions Polycyclic aromatic hydrocarbons (PAH) USEPA 16 speciated	Modified Suite E (Soil)
	Volatile organic compounds (VOCs) and Semi-volatile organic compounds (SVOCs)	
Modified Suite F (Groundwater)	Metals: arsenic, barium, beryllium, boron, cadmium, calcium, chromium (III & VI), copper, ferric and ferrous iron, lead, manganese, mercury, selenium, vanadium, zinc	Modified Suite F (Groundwater)
Suite H (Soil)	Waste Acceptance Criteria Testing	0
Suite K (Soil Leachate)	Metals: arsenic, barium, beryllium, boron, cadmium, chromium, hexavalent chromium, copper, iron, lead, magnesium, manganese, mercury, molybdenum, nickel, selenium, vanadium, zinc	5
	Total hardness, pH, sulphate, cyanide free & complex, ammoniacal nitrogen, chloride, nitrate, phenols	
	Total petroleum hydrocarbons	
	PAH USEPA 16 speciated	

Table A.2 Geo-Environmental Testing Suites

Groundwater

A.2.11 Groundwater strikes during drilling have been identified in seven of the 11 vertical boreholes drilled to date. A summary of the groundwater strikes and the depths to groundwater recorded 20 minutes after the strikes were observed (a standard duration to allow groundwater levels to equilibrate) is included in the table below.

Borehole ID	Level (m AOD)	Depth of Strike (m bgl)	Depth After 20 Minutes (m bgl)	Stratum
MT-005 ²	6.52	-	-	N/A
MT-009	7.54	6.40	4.80	Kempton Park Gravel
MT-017a	7.80	3.90	3.50	Kempton Park Gravel
MT-019-35	22.49	11.70	11.56	Kempton Park Gravel
MT-022-35	7.80	4.70	4.70	Kempton Park Gravel
MT-025-35	5.88	-	-	N/A
MT-026-35	7.47	-	-	N/A
MT-027-35	7.01	4.30	4.30	MG
		5.50	5.50	
MT-028-35 ¹	7.29	-	-	N/A
MT-030-35	5.71	3.20	2.80	Alluvium
MT-031-35	8.28	5.20	3.45	Kempton Park Gravel

Table A.3 Summary of Groundwater Strikes

Monitoring

A.2.12 High Density Polyethene (HDPE) and Polyvinyl Chloride (PVC) standpipe piezometers have been installed in most of the completed boreholes for the purpose of groundwater monitoring and in some instances ground gas monitoring. A single 42mm diameter standpipe has been installed in boreholes MT-009, MT-022-35, MT-027-35, MT-028-35, MT-030-35 and MT-031-35. Dual installations, comprising a single 50mm dia. standpipe and a single 42mm dia. standpipe, have been installed in MT-019-35 and MT 025-35. Two 42mm dia. standpipes have been installed in MT-005. The approximate standpipe

² Cable Percussion (CP) only drilled to 3m bgl in MT-005, 6m bgl in MT-028 and 6.50m bgl in MT-025 before switching to rotary cored Geobore-S. Due to the use of drilling flush during the rotary coring process it is often not possible to record groundwater strikes, hence it is possible that the groundwater table in MT-005, MT-028 and MT-025 lies below 3m bgl, 6m bgl and 6.50m bgl respectively. MT-026 was drilled by CP to its termination depth of 8.5m bgl.

installation depths and screen lengths are presented in Table A.4. In accordance with the GI specification, groundwater monitoring proposed within the six months allowable period for the borehole to be drilled, decommissioned and reinstated at each location. This will be undertaken to understand local groundwater conditions by the use of dataloggers.

BH ID	Screen Top (m bgl)	Screen Base (m bgl)	Stratum/ Strata Screened
MT 005	18	21	London Clay
WIT-005	39	42	London Clay
MT-009	26	29	London Clay
MT-019-35	4	13	MG and Kempton Park Gravel
	57	60	London Clay
MT-022-35	34	37	London Clay
MT-025-35	1	4	MG and Kempton Park Gravel
	25	28	London Clay
MT-027-35	20	23	London Clay
MT-028-35	19	22	London Clay
MT-030-35	29	32	London Clay
MT-031-35	12	15	London Clay

Table A.4 Standpipe Installations

A.3 Geo-environmental

Ground Conditions

Made Ground

- A.3.1 MG has been encountered at all borehole locations except MT-017a. Clay has been reported as the primary constituent of the MG at the majority of exploratory locations, with sand and gravel also encountered. Anthropogenic materials recorded on borehole logs at these locations is shown in Section Annex A1.
- A.3.2 A faint hydrocarbon odour was noted at 1m bgl in MT-019-35. This exploratory hole location was within the embankment fill of Mogden STW in the area where the Drive Shaft is proposed to be constructed and is adjacent to a historical landfill. The MG depth of 10.2mbgl may indicate that the landfill extends further west than indicated on mapping, refer to Figure 10.1 and Figure 10.2.
- A.3.3 MG was present to a depth of 6m at MT-027-35. This location is along the tunnel conveyance route and the infilled former gravel pits are mapped (as

artificial ground on the BGS map) to the west of this location. However, the presence of this thickness of MG indicates that the infilled former gravel pits extend further east than shown on the BGS map.

Table A.5 Anthropogenic Material Recorded Within Made Ground

Location	Base of MG (m bgl)	Anthropogenic Constituents	Proposed Structure
MT-003 ³	14.7	Fragments of brick, concrete, charcoal, ash, coal	Interception shaft Mogden STW Eastern Work Area
MT-004 ²	10.5	Fragments of charcoal	Interception shaft Mogden STW Eastern Work Area
MT-005	0.4	None observed	Interception shaft Mogden STW Eastern Work Area
MT-009	0.8	Fragments of brick, concrete	Tunnel conveyance
MT-017a	N/A	No MG recorded	Connection shaft Burnell Avenue
MT-019-35	10.2	Fragments of concrete, brick, wood, glass	Drive Shaft Mogden STW Western Work Area
MT-022-35	0.7	Fragments of tile, glass, potential clinker	Tunnel conveyance
MT-025-35	2.1	Fragments of brick, ceramics, concrete	Intermediate shaft Ham Playing Fields
MT-026-35	0.4	Brick fragments	Tunnel conveyance
MT-027-35	6.0	Fragments of brick, concrete, tarmacadam, slate, clinker, asbestos containing material, glass, wood, ceramic, metal	Tunnel conveyance
MT-028-35	0.35	Fragments of brick, concrete	Tunnel conveyance
MT-030-35	0.6	Fragments of brick, glass, potential clinker	Tunnel conveyance
MT-031-35	1.4	Fragments of brick, concrete, clinker, occasional brick cobbles	TLT connection tunnel

Soil Testing Analysis

A.3.4 The results of the geo-environmental tests received up to 25 February 2025 have been screened against Human Health Assessment Criteria (HHAC)

³ Horizontal borehole drilled into embankment at Mogden STW.

comprising either Category 4 Screening Levels (C4SL) or Suitable 4 Use Levels (S4UL) for a commercial/industrial end use and public open space residential end use. There has been a single exceedance of the public open space residential screening criteria for dibenz(a,h)anthracene at MT-019-35. It should be noted that this location is within the Mogden STW, therefore commercial/industrial criteria would be more appropriately applied in this scenario. There have been exceedances of the public open space residential screening criteria for lead at MT-022-35, and for benzo(b)fluoranthene and dibenz(a,h)anthracene at MT-028-35 and MT-030-35, additionally the commercial/industrial criteria for these two determinands were exceeded at MT-028. Given that these locations are on the tunnel conveyance route, the proposed scheme should not change human health exposure pathways at the surface. Additionally, the majority of organic contaminants were at concentrations below the laboratory limits of detection (LOD).

- A.3.5 Suspected asbestos containing material (ACM) was identified at MT-027-35 in the MG. Several attempts at this borehole were terminated upon encountering suspected ACM in the inspection pits for the borehole. Not all laboratory analytical data for samples had been received at the time of writing this Interim GI Factual Report, (Appendix 10.1); however, the laboratory subsequently confirmed this sample to be asbestos. As this borehole is on the tunnel conveyance route and there are no proposed structures or works, there will not be any exposure to human health from asbestos here as a result of the Project.
- A.3.6 The full screening results are available in A.7.

Summary of Findings

- A.3.7 The absence of asbestos and a lack of exceedances of the selected HHAC at the proposed works sites indicates there is a low risk from contamination to human health during the operational phase of the proposed Project.
- A.3.8 The composition of the MG and results of contamination testing received up to 25 February 2025 appear typical of ground conditions within urban areas, particularly outside Mogden STW. As expected, there are significant thicknesses of MG forming the embankments within the STW. MG outside Mogden STW is generally limited in thickness, however, there is evidence of landfilling in the vicinity of the Intermediate shaft at Ham Playing Fields (MG to 2.1m bgl), and on the tunnel conveyance route at MT-027-35 (MG to 6.0m bgl) associated with the former gravel workings in the area. Preliminary observations from MT-027-35, where 6m of MG was encountered, suggests that infilled gravel pits extend further east than suggested on BGS mapping of artificial ground.
- A.3.9 Once the full GI data (including ground gas and groundwater monitoring results) is received, a land contamination risk assessment will be undertaken.

A.4 Conceptual Ground Model

Ground Model

A.4.1 A conceptual ground model is being developed by the Applicant's geotechnical specialists based on available historical borehole records accessed via the BGS GeoIndex⁴, the Geotechnical and Geo-environmental desk study ('B22849AP-GEO-REP-002 | 02', Jacobs, 2022)⁵, and the information collected to-date from the ongoing GI. The ground model (GM) is at a preliminary stage of development and will be continually evolving as the GI progresses. An updated GM shall be produced as part of the final Ground Investigation Report (GIR) upon GI completion.

Made Ground

- A.4.2 MG has been encountered at various thicknesses in most boreholes completed to date with the exception of MT-017a. The sub-horizontal boreholes (MT-003 and MT-004) were drilled directly into a man-made embankment, hence the entirety of these boreholes is classified as MG. The MG in MT-003and MT-004 is typically described as a slightly gravelly Clay or Sand (detailed descriptions are included on the draft borehole logs in Section Annex A1.).
- A.4.3 Similarly, the embankment on which borehole MT-019-35 is located (in the area of the Drive Shaft) is classified as MG and generally described as a slightly gravelly Clay with flint and brick fragments. Most of the completed boreholes, MT-005, MT-009, MT-022-35, MT-026-35, MT-028-35, MT-030-35 and MT-031-35, encountered relatively small amounts of MG (between 0.4 and 1.4m bgl).
- A.4.4 Greater thicknesses of MG (2.1m and 6m) were encountered in boreholes MT-025-35 and MT-027-35. Infilling comprising various anthropogenic materials at MT-027-35 (adjacent to Woodville Road in Ham) included various construction/demolition waste, including asbestos. This is indicative of infilling of gravel pits suggesting the artificial ground mapping may not be accurate.

Superficial Deposits

A.4.5 Superficial deposits were encountered in most boreholes. The River Terrace Deposits encountered are primarily ascribed to the Kempton Park Gravel Formation (typically a medium dense to dense silty, gravelly Sand). However, the Langley Silt Member, typically of post-glacial aeolian origin, was encountered in MT-009-35 and 3.3m of Alluvium interbedded with Peat was encountered in borehole MT-030-35 underlying the MG. Only some two metres of the Kempton Park Gravel were encountered in MT-025-35 (in the area of the Intermediate shaft at Ham Playing Fields), much having been removed as a consequence of local former gravel extraction. No superficial deposits were

⁴ British Geological Survey, "BGS GeoIndex Onshore. Accessed: https://www.bgs.ac.uk/map-viewers/geoindex-onshore/," 2024.

⁵ Jacobs UK Ltd, "Thames Water London Reuse Gate 2 West London Desk Study ' B22849AP-GEO-REP-002 | 02'," 2022.

encountered in MT-005 (adjacent to the Interception shaft in Mogden STW Eastern Work Area).

A.4.6 The preliminary GM, combined with data from Jacobs' 2022 desk study ('B22849AP-GEO-REP-002 | 02', Jacobs, 2022)⁶, indicates a deepening of the top of the London Clay Formation between boreholes MT-019-35 (at the Drive Shaft in Mogden STW Western Work Area) and MT-020-35 (drilling yet to commence).

London Clay Formation

- A.4.7 The London Clay Formation has been encountered in all exploratory locations (with the exception of the two horizonal locations), from a depth of between 4.40m bgl (MT-025-35) and 23.00m bgl (MT-005). The base of the London Clay Formation is approximately 61 to 80mbgl.lt is typically described as very still finely laminated grey sandy or silty clay.
- A.4.8 The majority of shaft construction and all tunnelling along the proposed conveyance routes for the Project are expected to take place within the London Clay Formation.

Lambeth Group

- A.4.9 The Lambeth Group has been encountered in four boreholes, MT-005 (65m bgl), MT-019-35 (80.10m bgl), MT-022-35 (65.90m bgl) and MT-025-35 (61.22m bgl). It is typically described as a very stiff bluish and greenish grey mottled multi-coloured (comprising orange, red, purple and brown) silty slightly sandy Clay which is readily distinguishable from the overlying typically dark grey sequence of the London Clay Formation.
- A.4.10 The Lambeth Group sequence is not expected to be encountered during construction of the Project.

A.5 Forward Programme of Works

- A.5.1 Upon completion of the ongoing GI a full Ground Investigation Report (GIR) will be prepared. The GIR shall include an updated ground model and provide design recommendations based on the geotechnical and geo-environmental information collected during the GI.
- A.5.2 A Phase 2 GI is proposed to immediately follow Phase 1, but it has not yet commenced. It is currently scheduled to start in the latter part of June 2025. Phase 2 includes two vertical boreholes, principally for geotechnical purposes, at Orleans Gardens and at land adjacent to Cole Park Road.
- A.5.3 It may be necessary to propose additional boreholes where data collected from the Phase 1 and Phase 2 GIs is limited, to reduce risk during both the design and construction processes.

⁶ Jacobs UK Ltd, "Thames Water London Reuse Gate 2 West London Desk Study ' B22849AP-GEO-REP-002 | 02'," 2022.

Annex A1. Draft Borehole Logs

Unit 7, Danworth Farm										Borehole N	0.
	2		Hurstp BN6 9	ierpoi GL	nt		Borehole Log				
Geo-E	nvironn	nenta	www.g	esl.ne	t				•	Sheet 1 of	2
Projec	t Name:		London	Water I	Recycling (LWR)	Project No. GE21665		Co-ords:	Co-ords: 515794E - 174998N		9
Locatio	on:		London			Energy Ratio (%): Driller's Initial:		Level:	Level: 7.37		
Client:			Thames	s Water	Utilities Ltd	Rig Ty	/pe:	-Dates:	11/09/2024 - 13/09/2024	Logged By TL	у
Well	Water		Sample	and Ir	n Situ Testing	Depth	Level	Legend	Stratum Description	Stratum Description	
	Ounco	Dep 0.00	oth (m) - 0.50	Type B	Results	(11)	()		MADE GROUND comprising brown slightly silty sandy		
		0.00 0.00 0.80 1 1.50 2 2 2.70 2 2.70 2 2.70 2 2.70 2 2 2.70 2 2 2.70 2 2 2.70 2 2 2.70 2 2 2.70 2 2 2.70 2 2 2 7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8	- 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 1.45 - 20 - 2.60 - 1.45 - 20 - 2.60 - 1.45 - 20 - 2.60 2.60 2.60 4.20 5.70 5.70 7.20 - 70 7.20 - 70 7.20 - 70 7.20 - 70 7.20 - 70 8.70 8.70 	В ESPDESPD BESPD B ESPD ESPD B ESPD ESPD B ESPD ESPD ESPD ESPD ESPD ESPD ESPD ESPD	PID=0.0ppm PID=0.0ppm PID=0.0ppm PID=0.0ppm PID=0.3ppm PID=0.0ppm PID=0.0ppm PID=0.0ppm PID=0.0ppm	0.60 0.80 1.45 2.60	6.77 6.57 5.92 4.77		MADE GROUND comprising brown sli slightly gravelly CLAY with rootlets. Sa coarse. Gravel is fine to coarse subany subrounded mixed materials, including concrete (predominantly flint). MADE GROUND MADE GROUND comprising dark brow CLAY with abundant rootlets. Sand is 1 MADE GROUND comprising brown sli gravelly CLAY with roots. Sand is fine. coarse subangular flint. MADE GROUND MADE GROUND comprising brown to sandy slightly gravelly CLAY. Sand is f Gravel is fine to coarse subangular to mixed materials, including flint (predor brick and decayed charcoal fragments MADE GROUND comprising brown to brown sandy slightly gravelly CLAY. Sa medium. Gravel is fine to medium sub subrounded flint, and rarely brick and o or fine gravel-sized pockets of ash. MADE GROUND	ghtly silty sandy nd is fine to gular to brick, flint, // wn silty sandy ine. // ty sandy slightly Gravel is fine to // dark brown ine to medium. subrounded ninantly), and // dark yellowish nd is fine to rangular to coal fragments	
		9.20 9.20	PID PID=0.0ppm 0 - 10.20 B 9.70 ES 9.70 PID PID PID=0.0ppm		9.20	-1.83		MADE GROUND comprising dark brow sandy slighty gravelly CLAY with orgar is fine to medium. Gravel is fine to coa to subrounded mixed anthropogenic m including brick, ash, charcoal, flint. MADE GROUND	wn to dark grey nic odour. Sand rse subangular naterials	9	
Diamet	Casing er Depti	n (m) [Water Stri Depth Strike	ikes (mbgl) Rose to	Chiselling (mb Depth from De	gl) Remarks pth to Hole drilled Cased to su	l horizontally. D pport sides. W	epths given are ater added to a	from ground surface, horizontally into embankmen id penetrative of casing.	AGS	5

	Unit 7, Danworth Farm Hurstpierpoint					Borehole N	o. 3				
Geo-E	nviron	nenta	BN6 9	GL lesl.ne	et		50			Sheet 2 of	2
Projec	t Name		London	Water	Recycling (LWR)	Project No.		Co-orde:	51570/E - 17/008N	Hole Type	2 Э
	Iname		London	Water		GE21665	. (0/).	00-0103.	CO-0105. 313794E - 1749901		
Locatio	on:		London			Driller's Initial:		Level:	7.37	Scale 1:50	
Client:			Thames	s Water	Utilities Ltd	Rig Ty	Rig Type:Dates: 11/09/202		11/09/2024 - 13/09/2024	Logged By	
	Water		Sample	and Ir	n Situ Testing	Denth				IL	
Well	Strikes	Dep	oth (m)	Туре	Results	(m)	(m)	Legend	Stratum Description		
	Strikes	Der 10.24 1 1 1 1 1 1 1 1 1 1 1 1 1	oth (m) 0 - 11.70 0.70 1.70 0.70 1.70 2.70 2.70 0 - 14.70 3.70 4.70 4.70	Type B ES PID ES PID B ES PID ES PID ES PID	Results PID=0.0ppm PID=0.0ppm PID=0.0ppm PID=0.0ppm	(m)	-7.33		End of Borehole at 14.700	m to dark grey ic odour. Sand se subangular aterials	11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 19 -
											20 -
Diamet	Casing er Dep	th (m)	Water Str Depth Strike	ikes (mbgl) Rose te	Chiselling (mbg Depth from Dep	gl) Remarks	1		1		·
		-				Hole drilled Cased to su	horizontally. Do oport sides. W	epths given are ater added to a	 trom ground surface, horizontally into embankment aid penetrative of casing. 	AGS	5

		Unit 7	′, Danw	orth Farm					Borehole No.		
		Hurst	pierpoir	nt		MT-004					
Geo-E	nvironn	nental _{WWW.}	aesl.net	t				ele Leg	Sheet 1 of 2		
Draiaa	theme	Landay	5 Weter F		Project No.		Co. ordou	545772F 474020N	Hole Type		
Piojec	i name.	Londoi			GE21665		Co-orus.	515775E - 174930N	WLS		
Locati	on:	Londo	n		Energy Ratio	(%):	Level:	7.89	Scale		
					Rig Tv	pe:			Logged By		
Client:		Thame	es Water	Utilities Ltd		P 0.	Dates:	16/09/2024 - 17/09/2024	TL		
14/-11	Water	Samp	le and In	Situ Testing	Depth	Level		Charles Description			
vveii	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legena	Stratum Description			
		0.20 0.20 0.30 - 1.50	ES PID B	PID=0.0ppm	0.30	7.59		MADE GROUND comprising growing MADE GROUND MADE GROUND comprising greyish b slightly gravelly CLAY with some rootle fine to coarse subrounded to rounded	rown silty ts. Gravel is		
		1.00 1.00	ES PID	PID=0.0ppm				ALMADE GROUND At 0.6m: a root, 10mm diameter. 0.6 to 1.0m: patch of sandy clay. Sand is yellow medium.	ish brown, fine to		
		2.00	PID	PID=0.0ppm	1.50	6.39		MADE GROUND comprising greyish b very sandy CLAY with rootlets. MADE GROUND At 1.6m: abundant rootlets and a partially decay	rown sandy to red root, 12mm 2 -		
		2.25 - 3.00 2.50	B ES		2.25	5.64		MADE GROUND comprising yellowish fine to coarse SAND. Gravel is fine to subrounded to subangular flint. MADE GROUND	brown gravelly coarse		
		3.00 3.20 - 4.45 3.50	PID B	PID=0.0ppm	3.20	4.69		MADE GROUND comprising greyish b sandy slightly gravelly CLAY. Sand is f	rown very ine to coarse.		
		4.00	PID	PID=0.0ppm				Gravel is time to coarse subangular to a flint. Rare fine gravel-sized fragments of <u>MADE GROUND</u> <u>At 3.3m: patch of roots up to 6mm</u> diameter.	of charcoal.		
		4.45 - 6.00 4.60	B ES		4.45	3.44		MADE GROUND comprising brown to brown gravelly fine to coarse SAND. G coarse subangular to subrounded fiint.	yellowish ravel is fine to		
		5.00 PIE		5.00 PID PID=0.0p		PID=0.0ppm				MADE GROUND MADE GROUND comprising brown to brown gravelly fine to coarse SAND. G coarse subangular to subrounded flint.	yellowish iravel is fine to
		5.50 6.00 - 7.50	B					MADE GROUND	6 -		
		6.00 6.50	PID ES	PID=0.0ppm							
		7.00	PID	PID=0.0ppm					7 -		
		7.50	ES								
		8.00	PID	PID=0.0ppm					8 -		
		8.50	ES								
	9		9.00 PID PID=0.0p 9.50 ES						9 -		
	Carine	10.00	PID	PID=0.0ppm	π)) I				10 -		
Diamet	casing ter Dept	Water S h (m) Depth Strik	сткез (mbgl) e Rose to	Chiselling (mb)	pth to	orizontallut	rough ovistin -	embankment. Cacing used to support help side-			
					drilling. Hole to repeat col	e started 16/0 lapse of soils.	9/2024. Hole ci Engineer confi	ompleted 17/09/2024. Hole terminated at 10.5m di rmed termination.	AGS		

	Unit 7, Danworth Farm						Borehole No.						
	9	Hurst BN6 9	pierpoii AGI	nt			Bo	reh	ole Loa	MT-004			
Geo-E	nvironn	nental _{WWW.}	gesl.ne	et			_ •			Sheet 2 of	2		
Projec	t Name:	Londor	n Water F	Recycling (LWF	R) Pr	oject No.		Co-ords:	515773E - 174936N	Hole Type	9		
				, ,	GE F	E21665 nerov Ratio	(%)			WLS Scale			
Locati	on:	Londo	า		Dr	iller's Initial:	(/*/	Level:	7.89	1:50			
Client:		Thame	s Water	Utilities Ltd	_	Rig Typ	be:	-Dates:	16/09/2024 - 17/09/2024	Logged By	y		
		Some	Sample and In Situ Testing		Sample and In Situ Testing							IL IL	
Well	Strikes	Depth (m)	Type	Results		m)	(m)	Legend	Stratum Description				
		Depth (m) 10.50	ES	Results		10.50	-2.61		MADE GROUND comprising brown to brown gravelly fine to coarse SAND. G coarse subangular to subrounded filnt. MADE GROUND End of Borehole at 10.500	yellowish iravel is fine to Im			
											-		
											18 -		
											19		
											20 -		
Diamet	Casing cer Dept	Water St h (m) Depth Strike	rikes (mbgl) Rose to	Chiselling (Depth from	mbgl) Depth to	Hole drilled h drilling. Hole to repeat coll	orizontally thr started 16/09 apse of soils. I	rough existing e //2024. Hole cc Engineer confir	embankment. Casing used to support hole sides duri mpleted 17/09/2024. Hole terminated at 10.5m di rmed termination.		5		

		Unit	7, Danv	vorth	n Far	m					Borehole No.		
		Hurs BN6	stpierpoi 6 9GL	int					Bo	oreho	ole Log	MT-00	5
Geo-E	Environn	nentalwww	v.gesl.ne	et							0	Sheet 1 of 1	15
Projec	ct Name:	Lond	on Water	Recy	cling	(LWR		roject No.		Co-ords:	515789E - 174998N	Hole Type	•
								E2 1005 Energy Ratio	(%):			Scale	
Locati	on:	Lond	lon				D	riller's Initial:	()	Level:	6.52	1:25	
Client:		Thar	nes Water	r Utilit	ies Lt	d		Rig Ty	pe:	Dates:	18/09/2024	Logged By	/
				Im Ci4		4 1 m m			T			IL IL	
Well	Vvater Strikes	San Dopth (m						Depth (m)	(m)	Legend	Stratum Description		
		0.30 0.30 0.30 0.30 0.80 0.80 1.00 1.20 1.20 1.20 - 1.61 1.20	B ES PID B ES PID D B ES D SPT	N	PID= PID= =10 (1	:0.0pp :0.0pp	om om 2,3,3)	0.40	6.12		MADE GROUND comprising yellowish t gravelly fine to medium SAND. Gravel is subrounded flint. MADE GROUND Greyish brown to yellowish brown weatt CLAY with rootlets. Sand is fine to coars LONDON CLAY FORMATION Stiff greyish brown to yellowish brown w slightly sandy CLAY with rootlets. Sand medium. LONDON CLAY FORMATION	thered sandy rse. weathered silty d is fine to 1 ·	
		2.00 2.00 2.00 - 2.50 2.00 2.50 - 2.99 2.50	PID D ES B PID 5 D SPT	Ν	PID= PID=	=0.0pp =0.0pp ,,1/2,2,	,2,3)	1.90	4.62		Stiff greyish brown very thinly laminated very closely fissured silty CLAY. Fissures are very closely spaced without consistent orientations, tight to very tight, clean, dry, smooth, planar, unweathered. [Preliminary London Clay Formation subdivision C3.] LONDON CLAY FORMATION		2
		3.00 - 3.21 3.00 3.00 3.50 4.00 4.50 - 6.00 5.00	D D SPT PID D D D D Type/F	N 100	=10 (1 PID= 67	67	-100mi	m			At 3.25m: fossil worm casts up to 1mm diameter. At 3.45m: shell fragment. At 3.5m: fossilised wood fragment, 40 x 30 x 5 mm.	laystone nodule. 5mm x	4
	Casing	Wate	I ype/F		CH	iselling	(mbgl)	Remarks					
Diame 200) 1.1	h (m) Depth St	rike Rose	, to	Depth f	rom	Depth t	Hand dug pit	to 1.2m. CP dr Ny.	rilled to 3m. Preli	iminary London Clay Formation subdivisions based on	AGS	

oject	Name: Lo	ndon Water I	Recycli	ing (LW	R)		C	lient: Th	ames Wat	ter Utilitie	s Ltd			Date: 18	/09/2024				
catio	on: London						C	Contracto	r:					Co-ords:	E515789	.04 N1749	998.30		
oject	No. : GE2	1665					C	Crew Nan	ne:					Drilling E	Equipment				
В	orehole Nu	imber		Hole 1	Гуре			0	Level			Logged E	Ву		Scale		F	Page Numb	er
	IVIT-005	Denth	Т	vne	кс С(orin	a	ter ery)	.52m AOL Denth	, , e	vel				1:25			Sheet 2 of	15
ell	Water	(m)		/FI T	CR	SCR	9 RQD	Diame Recov	(m)	(r	n)	Legend		S	tratum D	escript	ion		
				1	100	100	100						Stiff gre fissured without clean, d London LONDO At 5.2m: fissu stiff, unweath 5.3 to 5.4m: fi very stiff, unweath stiff, unweath	yish brow silty CLA consister ry, smoo Clay For N CLAY re. 90 degree red ssure. 80 de eathered	AY. Fissure AY. Fissure th, planar, mation sul FORMATI e dip. Smooth egree dip. Smooth	ny lamina es are ver ons, tight unweathe odivision ON , planar, poli , planar, poli	ished, very tig to very tig ered. [Pre C3.] polished, very tig	closely spaced ght, liminary ght, clean, ver ny tight, clean, ght, clean, ver	/ /
		6.00 6.00 - 7.5	0	D	100	73	40	- (14) 100mm					Stiff, unweathe	um gravel-si	zed fossilised	wood fragm	nent.		
		7.00		D				-			<u>य 1</u> य 1 य 1 य 1 य		At 7. 1m: tabul 10mm. 7.5 to 8.5m: pi	ar medium ç ressuremete	rravel-sized fo	ssilised woo	d fragment. :	3mm x 10mm	×
		8 50 - 10 0	00					-100mm											
		8.70 8.80 - 9.2	0	D C	100	100	67						At 9.2m: pyriti 9.5 to 9.8m: fi very stiff, unw	sed fossil wo ssure. 90 de pathered	ood fragment. egree dip. Sm	15 x 50 x 40 ooth, planar,)mm. polished, ve	ery tight, clean,	
			\vdash		-+							<u> </u>							-
ole	Diameter	Casing Di	ameter			(Chisel	ling		In In	clination	and Orienta	ition	D	D	Drillin	g Flush		
Ba	ise Diameter	Depth Base 1.60	Diameter 200	Depth	Iop [∪epth E	5ase	Duration	Tool	Depth Top	Depth Ba	se Inclination	n Orientation	Depth Top	Depth Base	Туре	Colour	Min (%)	M

oject	Name: Lo	ndon Water	Recycl	ing (L	WR)		C	Client: Th	ames Wat	ter Utilitie	s Ltd			Date: 18/	09/2024				
atio	on: London						C	Contracto	or:					Co-ords:	E515789	.04 N174	998.30		
jec	: No. : GE2	1665					C	Crew Nar	ne:					Drilling E	quipment	::			
В	orehole Nu	umber		Hole	е Туре	•			Level			Logged I	Ву		Scale		F	age Num	er
	MT-00	5 Donth				orin) arter	5.52m AoD			TL			1:25			Sheet 3 of	15
ell	Water	(m)		/FI	TCR	SCR	RQD	Diame Recovi (SPT	(m)	(r	n)	Legend		St	tratum [Descript	ion		
		10.00 10.00 - 11 11.00 11.50 - 13	.50	D	33	33	16	-100mm	10.00	-3	48 °		Stiff gre fissured without clean, c London LONDC 9.9 to 10.0m: Very stiff, unw CLAY. S to 40 de stiff, un Formati LONDC	eyish brow d silty CLA consisten dry, smoot (Clay Forn ON CLAY I fissure. 50 d eathered D RECOV covered). nly to thin Several fis egree dip, weathered ion subdiv DN CLAY I	n very thi Y. Fissure t orientat h, planar, mation su <u>FORMATI</u> egree dip. S /ERY (una Stiff to vely laminat sures cut sures cut smooth, J. [Prelimi rision C2. FORMATI	Inly lamina es are ver ions, tight unweathe bidivision ION able to de ry stiff ver ed brown through t planar, ve inary Lond ION	ated very ig y closely : to very tig ered. [Pre C3.] <i>ar, polished, v</i> termine dr ry closely ish grey s he core: t ary tight, cl don Clay	closely spaced sht, liminary <i>ery tight, clea</i> epth of fissured ilty ight, 20 ean,	1,
					0	0	0												
		13.00 - 14	.50	D	80	47	13	- (28) 100mm	13.00	-6	48		Very sti fissurec Fissure undulat subdivis LONDC	ff very thir d greyish t s are mos ing, dull to hered. [Pr sion C1.] DN CLAY f	aly lamina prown slig tly subho o slight pc eliminary FORMATI	ited very of htty silty t rizontal, s Jlish, very London C ION	closely to to silty CL smooth, pl tight, clea Clay Form	closely AY. anar to an and ation	
												<u>×_</u>							
		14.50 14 50 - 16		D				100mm				<u></u>							
ماد	Diameter	01 - 00.דו (asing D	iameter	-			Chicel	ling	1		clination		ation			Drillin	na Flush		
Ba	Diameter	Depth Base 1.60	Diamete 200	r Dej	pth Top	Depth	Base	Duration	Tool	Depth Top	Depth B	ase Inclination	n Orientation	Depth Top	Depth Base	e Type	Colour	Min (%)	

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	O-EIIVIIOII	mental															
Proje	ct Name: Lo	ndon Water Re	cycling (L	_WR)		0	Client: Th	ames Water	Utilities L	d			Date: 18/09/2024				
Loca	ion: London					(Contracto	r:					Co-ords: E515789	0.04 N1749	98.30		
Proje	ct No. : GE2	1665 Imbor	Hol			-	Crew Nar	ne:			oggod F	By	Drilling Equipment		Pac	no Numbo	r
	MT-005	5	CI	P+RC	5		6	5.52m AoD		I	TL	Бу	1:25		She	eet 4 of 15	5
We	II Water	Depth (m)	Type /FI	C TCR	SCR	g RQD	Diameter Recovery (SPT)	Depth (m)	Leve (m)	Le	egend		Stratum [Descripti	on		
		15.00 - 15.40 15.50	C	100	100	87						Very stii fissured Fissure undulati subdivis LONDC 14.7 to 14.8m. stiff, unweath stiff, unweath tight, clean, ve dat 15.5m: fiss clean, very stii clean, very s	ff very thinly lamina greyish brown slig s are mostly subho ing, dull to slight po- nered. [Preliminary sion C1.] IN CLAY FORMAT fissure. 50 degree dip. S rred	Anted very c htty silty to rizontal, sr blish, very t London C ION Smooth, undul Smooth, plana, th, planar, slig Toth, planar, slig	losely to clc o silty CLAY mooth, plan tight, clean lay Formati ating, dull, tight r, slightly polished, v ightly polished, v ightly polished, so ooth, planar, sli issure 2: 30 de ur otter	psely ar to and ion t, clean, very very tight, very tight, very tight, ightly gree dip. the ord	15
		16.00 - 17.50					- (31) 100mm	16.00	-9.48	×	 	NO REC	r, slightly polished, very i	<u>tig</u> ht, clean, ve	ery stiff, unweat	thered.	- 16 -
				0	0	0											17 -
		17.50 17.50 - 19.00 18.50 19.00 - 20.50	D	100	87	80	- (23) 100mm	17.50	-10.98			Stiff to \ brown s subdivis LONDC At 17.85m: 5m 5mm below! 18.0 to 18.1m. yery stiff. unw 18.1 to 18.2m. yery stiff. unw 18.2 to 18.25m tight, clean, ve At 18.6m: fissis stiff. unweather At 18.75m: 40 85 degree dip unweathered. At 18.75m: fissis 85 degree dip unweathered. At 18.75m: meather 18.9 to 19.0m tight, clean, ve At 19.75m: meather at 19.75m. fissis	very stiff very thinly iilty CLAY. [Prelimir sion B2.] IN CLAY FORMAT in CLAY FORMAT in thick layer of dark gree fissure. 45 degree dip. 5 aathered. fissure. 60 degree dip. 5 aathered. fissure. 10 degree dip. ry stiff, unweathered. ure. 45 degree dip. Smoc fisets subhorizontal fiss smot n, sighty polishe Offsets subhorizontal fiss sure. 0 degree dip. Smoc hered. Walk appear rem issure at same depth. fissure. fosure. 1 degree dip. sny stiff, unweathered. sny stiff, unweathered.	Iaminated hary Londo ION y silty sandy O mooth, undul mooth, undul mooth, undul mooth, plan th, undulating tes against lar d, very tight, c sure at same o th, planar, slip oulded. Fissur mooth, plana fo subrounded t	fissured gri n Clay Forr CLAY with shell ating, dull, very ating, dull, very ating, dull, very ar, slightly polis , dull, very tight minations withir ident, very stiff, depth. ghtly polished, pt offset 10mm r, slightly polish d claystone noc o subangular cl	eyish mation fragment (tight, clean, (tight, clean, (tight, clean, shed, very t, clean, c	18
Ho	le Diameter Base Diameter	Casing Diam Depth Base Dia 1.60 2	eter neter De 00	pth Top	Depth	Chisel Base	ling Duration	Tool De	Inclin pth Top De	ation ar	d Orienta	n Orientation	Depth Top Depth Base	Drilling • Type	g Flush Colour	Min (%)	Max (%)

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roject	Name: Lo	ndon Wate	r Recy	cling (L	WR)		C	lient: Th	ames Water	Utilities Lt	d		Date: 18/09/202	4			
ocatio	n: London						(Contracto	r:				Co-ords: E51578	39.04 N174	998.30		
oject	No. : GE2	1665					0	Crew Nan	ne:				Drilling Equipme	nt:			
В	orehole Nu	umber		Hole	е Туре	1			Level		Logged	Ву	Scale	e	P	age Numb	ber
	MT-005	5		CF	P+RC			6 5	.52m AoD		TL		1:25		S	Sheet 5 of	15
/ell	Water	Depti (m)	า	Type /FI	TCR	SCR	g RQD	Diamete Recover (SPT)	Depth (m)	Level (m)	Legend		Stratum	Descript	ion		
		19.50		D	100	73	47					Stiff to v brown s subdivis LONDC 19.4 to 19.9m Fissures are s unweathered.	very stiff very thin silty CLAY. [Prelin sion B2.] DN CLAY FORMA very closely fissured. subhorizontal fissures mooth, planar, slightly	Iy laminated ninary Lond TION	d fissured i on Clay Fo between 10 a tight, clean, ve	greyish ormation and 60mm. ary stiff, ished, very	20
		20.50		D				_	20.50	-13.98	× <u> </u>	<u>Igni, clean, va</u> <u>At 20.4m: fost</u> NO RE 21.5m,	ery sim, unweatnered. sil shell fragment. COVERY (pressu core lost 21.5 to)	iremeter tes 23.0m)	st pocket 2	0.5 to	2^
		21.50 - 23	3.00		7	7	7	-100mm				21.5 to 23.0m barrel. Unable	: core lost due to 100m to confirm depth of cla	im thick piece c i <u>yst</u> one within c	of claystone st core run.	uck in core	2:
		23.00 - 24 23.30	4.50	D				-100mm	23.00	-16.48		Very sti silty CL Subdivis 20 to 23.00 bert of the cla	ff very thinly lami AY. Preliminary [I sion B2.] DN CLAY FORMA : core disturbed by clay :stone band betweno 2	nated fissur London Clay TION IStone cobbles.	ed greyish y Formatio Uncertain if c	1 brown in :laystone is	2
		24.00		D	93	87	87					23.1 to 23.2m ight, clean, vu 23.15 to 23.3r ight, clean, vu 23.2 to 23.3m Smooth, plani At 23.6m fiss very stiff, unw At 23.6m fiss very stiff, unw At 23.5m fiss clean, very sti At 24.0m fiss clean, very sti	fissure. 45 degree dip ery stiff, unweathered. m: fissure. 90 degree d ery stiff, unweathered. : fissure. 45 degree dip. ar, slightly polished, veu ure. 85 degree dip. Sm eathered. ure. 0 degree dip. Smo ff, unweathered. ssilised wood fragment ure. 5 degree dip. Smo ff, unweathered.	. Smooth, plan, p. Smooth, pla opposite direc y tight, clean, v ooth, planar, po oth, planar, slig mm diamete oth, planar, slig	ar, slightly pol nar, slightly po ction to fissurer very stiff, unwe olished, very t ahtly polished, r, 10mm lengt htly polished,	ished, very olished, very e at 23.1m. eathered. ight, clean, very tight, h. very tight,	2
Hole	Diameter	Casing I	Diamete	er			 Chisel	ling		Inclina	tion and Orient	ation		Drillir	ng Flush		
th Ba	se Diameter	r Depth Base 1.60	Diame 200	ter De	oth Top	Depth I	Base	Duration	Tool De	epth Top Dep	th Base Inclinatio	on Orientation	Depth Top Depth Ba	ase Type	Colour	Min (%)	Max

roject	Name: Lo	ndon Water Re	ecycling (LWR)		C	lient: Th	ames Wa	ter Utilitie	s Ltd			Date: 18/09/2024				
ocatio	n: London					c	Contracto	r:					Co-ords: E515789	.04 N1749	998.30		
roject	No. : GE2	1665				c	rew Nar	ne:					Drilling Equipment	:			
Bo	orehole Nu	mber	Ho	le Type	9			Level			Logged B	Ву	Scale		P	age Numb	er
	MT-005	j Davratia	C T	P+RC	•!		6 ح	.52m AoD)		TL		1:25		S	sheet 6 of	15
Vell	Water	(m)	/FI	TCR	SCR	g RQD	Diamet Recove (SPT)	Deptr (m)	i Le (n	n)	egend		Stratum E	Descripti	ion		
		24.50 - 26.00 24.80 - 25.20 26.00 26.00 - 27.50	D	100 93	SCR 100 60	80 60	-100mm - (43) 100mm			שו אריאריאריאריאריאריאריאריאריאריאריאריאריא		Very stiff silty CL/ subdivis LONDO At 24.05m: fiss clean, very stiff 24.2 to 24.3m: tight, clean, very stiff At 24.55m: fiss very stiff. unwe 24.65 to 24.7m clean, very stiff At 24.75m: fiss tight, clean, very 25.65 to 25.7m tight, clean, very 26.65 to 25.7m tight, clean, very 26.65 to 25.7m tight, clean, very 26.65 to 25.7m tight, clean, very 26.80 to 27.100 clean, very 26.80 to 27.100	f very thinly lamina Y. Preliminary [Lot ion B2.] N CLAY FORMATI ure. 5 degree dip. Smoot (unweathered. fissure. 50 degree dip. Smoot led walls, unweathered. ure. 30 degree dip. Smoot athered. : fissure. 50 degree dip. (unweathered. : fissure. 20 degree dip. y stiff, unweathered. : fissures. 20 degree dip. y stiff, unweathered. App fissures. 20 degree dip. fissures. 85 degree dip.	ted fissurn don Clay ON h, planar, sli mooth, undu oth, undulatir Smooth, undulatir Smooth, undulatir Smooth, plan Smooth, plan bears conjug opposite dir stiff, unweath lightly sandy 7mm diame: Smooth, pla	ed greyish r Formatio ghtly polished lating slightly ng, dull, very : ulating, dull, very : slightly po anar, slightly po ter, 12mm le anar, slightly p) brown n 1, very tight, y polished, vet tight, clean, tight, clean, very tight, uished, very solished very re at 25.6m. oth, planar, ngth.	y 25 26
		27.00	D				-100mm			×' ×' ×' ×' ×		10/11, clean, ve. 26.90 to 26.95. tight, clean, ve. 26.80 to 27.10, tight, clean, ve. 27.1 (both sub- of core). At 27.0m: fissu clean, very stiff 27.40 to 27.50, slightly polishe	ry sin, unweathered. fissure. 60 degree dip. 5 ry stiff, unweathered. m. fissure. 85 degree dip. y stiff, unweathered. Po- vertical, at approx 60 deg- re. 25 degree dip. Smoo f, unweathered. m. fissure. 70 degree dip d, very tight, clean, very.	Smooth, plan Smooth, plan ssibly conjug- rees to each th, planar, slig Smooth, pla stiff, unweath	ar, slightly po anar, slightly p ate with fissu, other around ghtly polished anar to curved ered. Second	lished, very polished, very re from 26.8 t d vertical axis d, very tight, d surface, d fissure at o surface, d fissure at	。27
		28.00	D	100	100	80				4 X X X X X X		same depth, w fissure. At 27.6m: sligh 27.7 to 27.8m: polished, very Smooth, piana 4t 28.0m: fissu plean, very slifi 28.0 to 28.1m: tight, clean, ve 28.0 to 28.3m: tight, clean, ve 4t 28.3m: fissu	un same characteristics, tly pyritised medium grav two fissures. Fissure 1: tight, clean, very stiff, unir, r, dull, very tight, clean, v re. 30 degree dip. Smoo. , unweathered. fissure. 10 degree dip. Sry y stiff, unweathered. fissure. 90 degree dip. Sry y stiff, unweathered. re. 10 degree dip. Smoo.	at 90 degree rel-sized clay 45 degree di, veathered. F ery stiff, unw th, planar, slig mooth, plana mooth, planar, slig	is around con instone nodule p. Smooth, pi Fissure 2: 90 eathered. ghtly polished ar, slightly pol ghtly polished ghtly polished	e axis to first a. lanar, slightly degree dip. d, very tight, lished, very ished, very d, very tight,	28
Hole pth Ba	Diameter se Diameter	Casing Diam Depth Base Di 1.60	neter Dameter Dameter Dameter 200	epth Top	(Depth I	Chisell	ling Duration	Tool	In Depth Top	clination a		clean, very stiff At 28.35m: fiss clean, very stiff 28.35 to 28.4m tight, clean, ver At 28.55m: ver ation n Orientation	f, unweathered. ure. 20 degree dip. Smo , unweathered. : fissure. 85 degree dip. y stiff, unweathered. y thin lense of dark grey Depth Top Depth Base	oth, planar, s Smooth, plar silty fine sand Drillin Type	g Flush	ed, very tight, plished, very Min (%)	Max (

iect	Name [.] Lo	ndon Water Rec	vclina (I	WR)		C	lient [.] Th	ames Wate	r Utilities	l td			Date: 18	/09/2024				
atio			yoning (L				Contracto	nr.					Co-ords	· E515789	04 N174	998 30		
ioct		1665					row Nor	". ".					Drilling F					
B	prehole Nu	umber	Hol	e Type	•			Level			Logaed	Bv		Scale	•	F	Page Numb	 ber
	MT-00	5	CI	P+RC			6	5.52m AoD			TL	_,		1:25		5	Sheet 7 of	15
ell	Water	Depth	Туре	C	orin	g	ameter covery SPT)	Depth	Lev	el	Legend		S	tratum [Descript	tion		
		(11)		TCR	SCR	RQD	Dia Re	(m)	(11))	<u>x</u>	Very sti	ff very thi	nly lamina	ted fissur	red greyisl	n brown	+
		20.00					(50)				<u>×_</u>	silty CL	AY. Prelir sion B2.1	ninary [Lo	ndon Clay	y Formatio	on	
		29.00 - 30.50					(00) 100mm				× <u> </u>	LONDO	ON CLAY	FORMATI	ON			
											<u> </u>							
											××		diume exervel	aizad alayata	- nodulo			
											××_ ×	29.5 to 29.75	n: fissure. 90	o degree dip a	at top, curves	s sharply at b	ase to 0 degr	e
		29.60 - 30.00	С								<u>xx^</u>	dip. Smooth, to offset lamin	slightly polisi nations on ei	hed, very tigh ther side of ve	t, clean, very ertical section	/ stiff, unweat n.	hered. Appea	S
				100	100	40					<u>^x</u>							
											<u>×_</u>		ouro 15 doo	aroo din Smo	oth planar	aliabtly polich	od von tight	
		30.00	D								x <u>-x</u>	clean, very sti 29.95 to 30.2	iff, unweathe n: fissure. 8	ered. 5 degree dip.	Smooth, plai	nar, slightly p	olished, very	
											<u>xx</u>	tight, clean, v At 29.97m: fis clean, verv st	ery stiff, unw sure. 15 deg iff, unweathe	reathered. gree dip. Smo ared.	oth, planar, s	slightly polish	ed, very tight,	
											××	At 30.25m: pa a coarse grav	atch of dark g el-sized clay	grey silty very stone nodule	sandy clay.	Sand is fine.	Patch contain	5
								30.50	-23.9	98	<u>x</u>				motor tor	at packat)		
												NORL	COVEIN	(pressure		si pockei).		
		32.00 - 33.50					-100mm	32.00	-25.4	18	<u> </u>	Very sti	ff very thi	nly lamina	ted fissur	red browni	ish grey	
											<u>xx</u>	silty CL	AY. Prelir sion B2.]	ninary [Lo	ndon Clay	y Formatio	on	
											× <u>×</u>	LONDC 32.0 to 32.5m	ON CLAY	FORMATI	ON one.			
		32.50									×× [×]	AL 32.311. 150		aysione (who	ie core diam	leter).		
		52.50									× 	32.6 to 32.9m	: fissure. 85	dearee dip. S	mooth. plan	ar. slightly po	lished. verv	
				80	67	20					<u></u>	tight, clean, v	ery stiff, unw	eathered.				
											<u>×_</u>	32.8 to 33.1m 32.85 to 32.9	: very closel 5m: fissure v	y to closely fis with curved su	sured. rface. 60 deg	gree dip at to	p, curving to 8	0
											x_ <u></u> x	degree dip. Si 33.0 to 34.7m	mooth, slight : decreasing	tly polished, v i silt content, l	ery tight, cle becoming slig	ean, very stiff, ightly silty.	unweathered	
											<u>xx</u>	33.1 to 33.2m tight. clean. v	: fissure. 45 erv stiff. unw	degree dip. S eathered.	mooth, plan	ar, slightly po	lished, very	
											××	_ <u></u>	.,					
											<u>x_^_x</u>	33.35 to 33.4	5m: very clos	sely fissured.	•			
		33.50 33.50 - 35.00	D				-100mm				<u>xx^</u>							
ole	Diameter	Casing Diame	ter			Chisel	ling		Incl	inatio	n and Orienta	ation			Drillin	ng Flush		
Ba	se Diameter	Depth Base Diam 1.60 20	neter De 10	pth Top	Depth	Base	Duration	Tool D	Depth Top D	epth E	Base Inclinatio	on Orientation	Depth Top	Depth Base	Туре	Colour	Min (%)	M
						1							1	1	1		1	

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AGS

oject	Name: Lo	ndon Water	Recycli	ing (LV	VR)		C	Client: Th	ames Wa	ter Utilitie	s Ltd			Date: 18/	/09/2024				
catio	n: London						C	Contracto	r:					Co-ords:	E515789.	04 N1749	998.30		
oject	No. : GE2	1665					C	Crew Nan	ne:					Drilling E	quipment:				
В	orehole Nu	Imber		Hole	Туре	•		_	Level			Logged E	Ву		Scale		P	age Num	ber
	MT-005	Dopth	<u>,</u> т		+RC	orin	~	6 ory	.52m AoL			TL			1:25		S	Sheet 8 of	15
ell	Water	(m)		/FI	TCR	SCR	9 RQD	Diame Recove (SPT	(m)	(1	n)	Legend		St	tratum D	escripti	on		
		34.50		D	100	67	13		34.70	-28	3.18		34.6 to 34.7m Very sti 33.7 to 34.2m tight, clean, ve Very sti Silty to Formati	tf very thin AY. Prelim sion B2.] J fresure 90 ery stiff, unwe ery stiff, unwe ff very thin very silty (ion subdiv No CLAY f	Ily laminat inary [Lor FORMATI(<i>tegree dip. Sr</i> <i>sathered.</i> <i>k light greyist</i> <i>k light greyist</i> <i>h</i> y laminat LAY. [Pre <i>r</i> ision B1.] FORMATIC	ed fissure idon Clay DN nooth, plana brown clays ed fissure liminary L DN	ed browni: Formatio r, slightly pol stone. Core v ed greyish ondon Cl	sh grey in lished, very wet. h brown lay	
		35.00 35.00 - 36	5.50	D -	100	100	70	-100mm					34.8 to 35.0m 34.9 to 34.9m striated, very stightly striate 34.95 to 35.0m striated, very 35.0 to 35.0m striated, very 35.5 to 35.65r clean, very stil J35.6 to 35.9m clean, very stil	: extremely c : fissure. 40 o iffissure. 4 d, very tight, : fissure. 40 o tight, clean, v m: fissure. 85 o ff, unweather : fissure. 85 o ff, unweather	Josely fisured Jegree dip. Sr very stiff, unwe degree dip. Sr Jegree dip. Sr very stiff, unwe degree dip. Sr ed. Jegree dip. Sr ed.	mooth, plana aathered. Smooth, plana eathered. Smooth, plana eathered.	nr, slightly pol nnar, slightly p red. Parallel nr, slightly pol nar, polished, v nr, polished, v	lished, slightly polished, with fissure a lished, slightly very tight, very tight,	it ,
		36.00 36.10 - 36 36.50 - 38	3.45 3.00	D C				-100mm					36.0 to 38.1m 30 and 60mm stiff, unweath	: very silty. H . Very tight, s ered. Core sp	orizontal to 1(smooth, plana, liits easily alo) degree dip r, dull to sligt ng these fiss	fissures spa htly polished, ures.	ced at betwee clean, very	n
		37.00		D	93	93	40						At 36.9m: clus At 37.2m: sev various directure very stiff, unw 137.7 to 37.8m tight, clean, vi 37.95 to 37.9t tight, clean, vi 37.95 to 37.9t tight, clean, vi 41.37.95m: py 86.1 to 38.15r tight, clean, vi 86.1 to 38.2m	eral cross-cu ons. Very tig reathered. : fissure. 80 ery stiff, unwe : fissure. 5 ery stiff, unwe : fissure. 5 ery stiff, unwe ritised fossil : fissure. 30 ery stiff, unwe : fissure. 75 of	ed fossil wood tting fissures. ht, smooth, pl degree dip. Sr aathered. Jegree dip. Sr aathered. O degree dip. Sr aathered. wood fragmer degree dip. Sa aathered. gegree dip. Sr	l fragments u Dip at betwu anar, duli to . mooth, plana Smooth, plan Smooth, plan Smooth, plan mooth, plana	up to 10mm a sen 20 and 7 slightly polisi ır, slightly pol ınar, slightly p gravel-sized. tar, slightly po yravel-sized.	diameter. 10 degrees in hed, clean, lished, very lished, very polished, very lished, very	,
		38.00 38.00 - 39	9.50	D -				-100mm	38.20	-3	.68		tight, clean, vo Very sti silty slig [Prelimi LONDC 38.2 to 38.35r tight, clean, vo 38.2 to 40.9m	ff very stiff, unwe ff very thir ghtly sand nary Lonc ON CLAY I m: fissure. 80 ery stiff, unwe : decreasing	eathered. hly laminat y to sandy don Clay F FORMATIO degree dip. S eathered. sand content,	ed fissure CLAY. Sa ormation ON Smooth, plan becoming s	ed greyish and is fine subdivisio har, slightly po ilty CLAY bel	n brown e. on A3.] olished, very low 40.0m	
	Diameter	Casing F)iameter				Chicel	ling		l le	clinatio	n and Orienta	ation			Drillip	n Flush		
Ba	se Diameter	Depth Base	Diameter Diameter 200	r Dept	th Top	Depth I	Base	Duration	Tool	Ir Depth Top	Depth E	and Orienta Base Inclination	n Orientation	Depth Top	Depth Base	Type	y Fiusn Colour	Min (%)	N

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roject	Name: Lo	ndon Water F	Recycline	g (LWR)		C	Client: Th	ames Water	Utilities Ltd			Date: 18/09/2024			
catio	n: London					C	Contracto	r:				Co-ords: E515789.04 N1	74998.30		
oiect	No. : GE2	1665				c	Crew Nan	ne:				Drilling Equipment:			
Bc	rehole Nu	umber	ŀ	Hole Typ	e		-	Level		Logged I	Ву	Scale	F	age Numl	ber
	MT-00	5		CP+RC			6	.52m AoD		TL		1:25	5	Sheet 9 of	15
/ell	Water	Depth (m)	Ty /F	pe (I TCR	SORIN	g RQD	Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend		Stratum Descri	ption		
		38.50 39.00 - 39.4 39.50 39.50 - 40.5	60 C) 100)	100	80	-100mm				Very sti silty slig [Prelimi LONDC	ff very thinly laminated fiss phtly sandy to sandy CLAY inary London Clay Formati DN CLAY FORMATION	sured greyisł . Sand is fin ion subdivisi	h brown 3. on A3.]	3
		40.50	C	93	93	67	-	40.50	-33.98		At 40.1m: 10n At 40.1m: fiss clean, very sti At 40.3m: part 40.3 to 40.4m 40.3 to 40.5m NO REI	nm thick layer of light greyish brown ure. 80 degree dip. Smooth, planar ff, unweathered. ting of light greyish brown sandy si i: extremely to closely fissured. :: very silty, with some very thin lens COVERY due to pressured	n sandy silt. San ; slightly polishe It. Sand is fine. ses of light greyi: meter test.	d is fine. d, very tight, sh brown silt.	4
- -		41.00 - 41.5	50	100	0	0	-100mm	41.00	-34.48		Very sti silty CL subdivis LONDC 41.0 to 41.5m	iff very thinly laminated fiss AY. Preliminary [London C sion A3.] DN CLAY FORMATION c core damaged by pressuremeter	sured greyisl lay Formatic test.	ו brown n	4
		41.50 - 43.0	00	100	100	67	-100mm				42.6 to 42.8m	: fissure 65 degree din Smooth p	lanar sliahtív no	lished very	4
	Diamotor	43.00 43.00 - 44.5	50 E)		Chical	-100mm		Incline		At 42.8m: two 60 degree dip unweathered.	ery stiff, unweathered parallel fissures, terminating in soi . Smooth, planar, slightly polished,	il mass, spaced very tight, clean	15 mm apart. Very stiff,	4
pth Bas	e Diameter	r Depth Base [1.60	Diameter 200	Depth Top	Depth I	Base	Duration	Tool De	pth Top Depth	Base Inclination	n Orientation	Depth Top Depth Base Type	e Colour	Min (%)	Max
ema	rke														

oject	Name: Lo	ndon Water	Recycli	ing (L	WR)		C	Client: Th	ames Wa	ater Utilitie	es Ltd				Date: 18	/09/2024				_
catio	n: London						(Contracto	or:						Co-ords:	E515789.	.04 N1749	998.30		
oject	No. : GE2	1665					(Crew Nar	ne:						Drilling E	quipment:				
Bo	orehole Nu	Imber		Hole	э Туре)			Level			Log	gged E	Зу	,	Scale		F	age Numb	ber
	MT-005	5		CP	+RC			6	6.52m Aol				TL			1:25		S	heet 10 of	15
Vell	Water	Depth	Т	ype	C	orin	g	ameter scovery SPT)	Dept	h Le	evel	Lege	end		S	tratum D	escript	ion		
		(11)		/1 1	TCR	SCR	RQE		(11)		,	<u></u>	X-	Very sti	f very thi	nly lamina	ted fissur	ed greyisł	n brown	
												<u></u>	 	silty CL subdivis	AY. Prelin sion A3.1	ninary [Lor	ndon Clay	/ Formatio	on	
												<u></u>		LONDC			ON			
												×	X	<u>ni 40.00m. on</u>	in the sur	ay elaysterie i	unination.			
												×		43.55 to 44.10	m: fissure. 9 erv stiff_unw	0 degree dip.	Smooth, pla	anar, slightly	polished, very	,
					100	100	70					<u>×</u>	<u> </u>	At 43.6m: foss	il shell fragn	nent.				
		42.00		D	100	100	73					<u></u>	X	At 43.85m: pa	rtina of liaht	arevish browr	n silt.			
		43.90 44.00 - 44.	40	C								×	<u> </u>	At 43.9m: 3mr	n thick lamin	ation of dark	grey sandy o	claystone.		4
			-	-							-	×	X	J						
												<u>x_^</u>	X-							
												×		From 44.3m: l extremely wea	aminations b k.	ecoming less	distinct. Bee	coming very	stiff to	
		44.50 - 46.	00					100mm				×	_ <u>×</u> _							
												×	_ <u>×</u>							
												× ×-	_ <u>×</u>	At 44.7m: 10m sandy claysto	nm thick lens	e (60mm diar	meter) of dar	rk greyish bro	own pyritised	
												× ×-	<u> </u>	At 44.8m: 10n claystone.	im thick laye	r of extremely	/ weak light g	greyish brow	n silty	
		45.00		D								× ×-	_ <u>×</u>							4
											-	<u></u>	_×	At 45 15m 10	mm thick lay	er of extreme	lu week der	k arev sendu	claystone	
					95	95	85						_ <u>×</u>	<u>AL 45. I SIII. 10</u>	inini tinok idy	er or extreme	iy weak dair	(grey sarray	ciaysione.	
											-			At 45 4m ⁻ silt i	parting					
												<u>×</u>			urung.					
												<u></u>	 							
												<u></u>	X	45.7 to 45.8m.	silt partings	spaced at 20) to 50mm.			
												×	 							
		46.00 46.00 - 47	50	D				-100mm				<u>x</u>	<u>×</u>							4
		40.00 - 47.										×								
												<u>×</u>	X	46.2 to 46.9m.	extremely to	o very closely	fissured. h planar sli	ahtly polishe	d to polished	
												<u>×</u>	X	very tight, clea 46.4 to 46.5m.	n, very stiff, fissure. 50	unweathered degree dip. Si	mooth, undu	lating, slight	y polished, ve	ry
												×	×	tight, clean, ve 46.45 to 46.55	ry stiff, unwe m: fissure. 5	eathered. 0 degree dip.	Smooth, un	dulating, slig	htly polished,	
											-	×	X	46.4m. 46.4m. At 46.6m: 10m	in, very stin, im thick laye	r of very stiff	to extremely	weak light g	reyish brown	
					100	100	40					×		silty clay.						
		(= 00										×		46.9 to 47.2m.	closely fissi	ured.				
		47.00		D								×	_×	47.0 to 47.1: fi clean, very sti	ssure. 30 de f, unweathe	gree dip. Sm red. Dips in op	ooth, planar, oposite direc	slightly polis	hed, very tight e 47.0 to	t, 4
												×	_ <u>×</u>	47.2m. 47.0 to 47.2m. tight_clean_ve	fissure. 70	degree dip. Si	mooth, undu	lating, slightl	y polished, ve	ry
												× ×-	<u> </u>	47.1 to 47.4m. tight, clean, ve	fissure. 90 fissure, 90 ery stiff, unwe	degree dip. Si eathered.	mooth, plana	ar, slightly po	lished, very	
		47.50 40						100mm				× ×-	_×	At 47.35m: 10 silty clay.	mm thick lay	er of very stif	f to extreme	ly weak light	greyish brown	
		47.50 - 49.	00					10011111			-	<u></u>	_ <u>×</u>	From 47.5m: v At 47.6m: 20m	ery stiff to e. m thick lave	xtremely weak	k. / weak light l	brownish are	v siltv clav.	
											-		_ <u>×</u>	47.7 to 47.5m 47.7 to 47.8m	slightly san fissure. 90	dy, with light g degree dip. Si	grey laminati mooth, undu	ons. Sand is lating, slightl	fine. y polished, ve	ry
			╞										<u>-× -</u>	tight, clean, ve	ery stiff, unwe	eathered. Terr	minates agai	inst laminatio	ns.	\neg
Hole	Diameter	Casing Di	ameter	-	u. -	l (Chise	lling			nclinatio	n and C	Drienta	tion	D	Denti 5	Drillin	g Flush		
in Bas	e Diameter	1.60	200 200	r Dep	n Top	Depth I	sase	Duration	Iool	Depth Top	Depth E	sase In	cinatior	Urientation	Depth Top	Depth Base	Туре	Colour	Min (%)	Ma
							1			1										

ıg r



Rotary Core Log

Geo	-Environ	mental							• •		4 1	y 0.			3				
Project	Name: Lo	ndon Wate	r Recy	cling (L	WR)		C	Client: The	ames Water	r Utilities I	Ltd			Date: 18	3/09/2024				
Locatio	n: London						C	Contracto	r:					Co-ords:	: E515789	0.04 N174	998.30		
Project	No. : GE2	1665					C	Crew Nam	ne:					Drilling E	Equipment	:			
Bo	orehole Nu MT-00	umber 5		Hole CP	e Type P+RC)		6	Level .52m AoD			Logged I TL	Ву		Scale 1:25		F	Page Numbe Sheet 11 of 2	er 15
Well	Water	Deptl (m)	h	Type /FI	C	orin	g ROD	Diameter Recovery (SPT)	Depth (m)	Leve (m)	el)	Legend		S	Stratum [Descript	ion		
		48.00)	D	107	107	93						Very st silty CL subdivi LONDO At 48.6m: thic Very st silty CL	iff very thi AY. Prelir sion A3.] DN CLAY <u>k lamination</u> iff very thi AY with s	inly lamina minary [Lo FORMATI of <u>dark grey</u> inly lamina silt partings	ated fissur ndon Clay ION <u>silty sandy C</u> ted fissur s. [Prelimi	ed greyisi y Formatio <u>SLAY. Sand is</u> ed greyisi nary Lonc	h brown on fine. h brown lon Clay	48
		49.00 49.00 - 50 49.60 - 50) 0.50 0.00	D				-100mm	49.00	-42.4	18		LONNDC 41.0 to 41.5m 42.6 to 42.8m tight, clean, v 4t 42.8m: two 50 degree dig unweathered 4t 43.35m 5t 43.55 to 44.1 tight, clean, v 4t 43.65m: pp At 43.85m: pp At 43.9m: 3m	DN CLAY .: core dama, .: fissure. 65 ery stiff, unw p parallel fiss. p. smooth, pl .: mm thick sam om: fissure. 9 ery stiff, unw sil shell fragr arting of light m thick lamin laminations l	FORMATI ged by press degree dip. S eathered. sures, termina lanar, slightly ndy claystone 90 degree dip 90 degree dip 90 degree dip eathered. ment. greyish brow nation of dark becoming les:	ION Irremeter test Smooth, plana ting in soil ma polished, ver Jamination. Smooth, pla m silt. grey sandy is s distinct. Bei	t. ar, slightly pc ass, spaced y tight, clean anar, slightly claystone. coming very	lished, very 15 mm apart. , very stiff, polished, very stiff to	49
		50.30)	D	107	107	60						extremely we At 44.7m: 100 sandy claystc At 44.8m: 100 claystone. At 45.15m: 11 At 45.4m: silt 45.7 to 45.8m At 46.3m: fiss yery tight, cle 46.4 to 46.5m ight, clean, y 46.45 to 46.5 yery tight, cle 46.4m.	ak. mm thick lens nm thick laye Dmm thick laye parting. : silt partings : extremely l sure. 75 degr an, very stiff, unw 5m: fissure. 1 an, very stiff,	se (60mm dia er of extremel yer of extremel s spaced at 2 to very closel ree dip. Smoo , unweathere degree dip. 50 degree dip. 50 degree dip.	Tweter) of dai y weak light of to 50mm. y fissured. th, planar, sli d. Smooth, undu 5. Smooth, undu d. Dips in opp	rk greyish brow k grey sandy ightly polishe ulating, slight ndulating, slig posite directio	own pyritised n silty claystone. d to polished, ly polished, verg intly polished, or fissure at	50
		50.50 - 5,)	D	100	100	93	-100mm					At 46.6m: 10 silly clay. 46.9 to 47.2n: 47.0 to 47.2n: 47.0 to 47.2n: 47.2m. 47.0 to 47.2n: tight, clean, v 47.1 to 47.4n: 41.47.35m: 11. silly clay. From 47.5m: 41.47.6m: 41.47.5m: 41.47.5m: 41.47.5m: 41.47.5m: 41.48.5m: this 10.41.5m: 41.48.5m: this 10.41.5m: 10.	mm thick laye i: closely fiss fissure. 30 di fif, unweathe i: fissure. 70 ery stiff, unw i: fissure. 90 omm thick laye mm thick laye i: slightly sam i: fissure. 90 ery stiff, unw k: lamination	er of very stiff sured. egree dip. Sn ared. Dips in c degree dip. S veathered. degree dip. S veathered. yer of very sti extremely wea er of extremel ndy, with light degree dip. S veathered. Tel o of dark grey	to extremely - - - - - - - - - - - - -	r weak light g silghtly polis ction to fissur ulating, slight ar, slightly po ly weak light brownish gre ions. Sand is ulating, slight inst laminatic LAY. Sand is revish brow	reyish brown shed, very tight, e 47.0 to ly polished, very diished, very greyish brown y silty clay. fine. y polished, very ns. fine. n verh silty	51
		52.00 52.00 - 53) 3.50	D				-100mm					CLAY. 50.0 to 50.3m At 50.05m: cl At 50.01m: cl 50.4 to 50.45 Very tight, cle At 50.6m: 10 claystone. At 50.8m: 20 claystone. At 50.6m: 30i	2: core dama aystone cobbi ystone cobbi m. fissure 39 an, very stiff mm thick laye mm thick laye mm thick laye mm thick lens	ged by clayst ble. I. O degree dip. I to extremely er of extremel er of extremel se of weak lig derately stron	one. - Smooth, unaweak, unweak, iy weak light j iy deak light j int greyish bri	tulating, sligh athered. greyish brow greyish brow own slity clay claystone.	tty polished, n silty n silty vstone.	52
Hole	Diameter	Casing I	Diamete	er –	I	(L Chisel	ling	<u>_</u> , ,	I Incli	inatio	on and Orienta	ation	D	D	Drillin	ng Flush		
Depth Bas	ie Diameter	r Depth Base 1.60	Diame 200	eter Dep	oth Top	Depth I	Base	Duration	Tool De	epth Top D	epth	Base Inclination	n Orientation	Depth Top	Depth Base	e Type	Colour	Min (%)	Max (%)
Rema	rks	a == :						. –										-	

Hand dug pit to 1.2m. CP drilled to 3m. Preliminary London Clay Formation subdivisions based on visual logs only.



Project	Name: Lo	ndon Water F	Recycling	g (LWR)		C	Client: Th	ames Water	Utilities I	td			Date: 18	/09/2024				
ocatio	n: London					(Contracto	r:					Co-ords:	E515789	.04 N174	998.30		
roject	No. : GE2	1665				C	Crew Nan	ne:					Drilling E	Equipment	:			
В	orehole Nu	Imber	I	Hole Type	e			Level			Logged	Ву		Scale		F	age Numb	ber
	MT-005	5 Describe	-	CP+RC	.		6 ⊾ ≥	.52m AoD		.	TL			1:25		S	heet 12 of	15
Nell	Water	Deptn (m)	I Y /F	Pe C	SCR		Diamet Recove (SPT)	Depth (m)	(m)	" L	egend		S	tratum D	Descript	ion		
		53.00	E) 100	100	86	-100mm					Very sti silty CL. Formati LONDC 52.8 to 53.1m tight, clean, ve 53.1 to 53.3m CLAY. 53.2 to 53.3m CLAY. 53.2 to 53.3m Clay. clean, very sti clean, very sti	ff very thi AY with s on subdiv N CLAY fissure. 80 ery stiff to ex core disturt fissure. 70 ery stiff to ex ure. 60 degr ff to extreme	nly lamina ilt partings vision A3.] FORMATI degree dip. S tremely weak bed, recovere degree dip. S tremely weak ee dip. Smool ly weak, unw	ted fissur . [Prelimi ON mooth, plana, unweatherd d at soft, we mooth, planar, sli eathered.	ed greyisł nary Lond ar, slightly po ed. t and destruc ar, slightly po ed.	n brown on Clay lished, very tured silty lished, very d, very tight,	53
		54.00	E) 100	100	73				יוא'וא'וא'וא'וא'וא'וא'וא'וא'וא'וא'ו		53.6 to 53.8m tight, clean, ve	fissure 85 ny stiff to ex bivalve shel	degree dip. S tremely weak	mooth, plann, unweatherd	ar, slightly po ed.	lished, very	54
		55.00 55.00 - 56.5	50)			–100mm	55.20	-48.6	3 3		Very sti sandy (of dark very thi Uprotimi	ff to extre CLAY, with grey sand	mely weal n rare med dy clay. Sa ated, predo	k brownis lium grav and is fine ominantly	h grey silt el-sized p e. In place g structure	y slightly atches s faintly less.	55
		55.70 55.90 - 56.3	30 C) 100	100	93							N CLAY	FORMATI	ON	I SUDUIVISI	011 A2.]	56
		56.50 - 58.0	00				–100mm			X		56.3 to 56.4m _clean, very sti	: fissure. 45 ff to extreme	degree dip. S Iy weak, unw	mooth, plan eathered.	ar, polished, v	very tight,	
		57.00) 100	100	80						At 56.6m: pyri	tised fossil v : sandy, with	vood fragmen	t. 8mm x 50 ery thin lens	omm x 30mm.	light grey silty	57
Hole	Diameter	Casing Dia	ameter			Chise	lling		Incli	nation a	nd Orient	ation		<u> </u>	Drillin	ig Flush	<u> </u>	
epth Ba	se Diameter	Depth Base [1.60	Diameter 200	Depth Top	Depth	Base	Duration	Tool De	epth Top De	pth Bas	e Inclinatio	on Orientation	Depth Top	Depth Base	Туре	Colour	Min (%)	Max



ject	Name: Lo	ndon Water I	Recycli	ng (LV	VR)		С	lient: Th	ames Wat		Date: 18/09/2024								
atio	n: London						С	Contracto			Co-ords: E515789.04 N174998.30								
ject	No. : GE2	1665					С	rew Nar		Drilling Equip	oment:								
Bc	orehole Nu	ımber		Hole	Туре	•		Level Logged By						Scale Page Number			er		
	MT-005	5		CP-	+RC			6 ج ج	5.52m AoD		.	TL		1	1:25		S	heet 13 of	15
Vell Water		Depth (m)		ype /FI	TCR	SCR	g RQD	Diamete Recove (SPT)	Depth (m)	Le (n	n)	Legend		Strat	um D	escripti	on		
		58.00 58.00 - 59. 59.00	50	D -	100	100	80	- 75mm			ים היא היא מיד		Very sti sandy (of dark very thi [Prelimi LONDC	Iff to extremely CLAY, with ran grey sandy cl nly laminated, inary London DN CLAY FOR The second second second DN CLAY FOR Second second second second Second second second second second Second second second second second second Second second second second second second second Second second second second second second second second second Second second secon	y weak re medi lay. Sar , predo Clay Fr RMATIC	brownisł um grave nd is fine minantły ormation DN thinly lamin thinly lamin nooth, plane	n grey silt el-sized p: . In place: structure subdivisio ated. Sand i er, slightly poo	y slightly atches s faintly less. on A2.] s fine.	5
		59.50 - 61.	00	-	100	100	100	100mm			<u>an an an</u>		59.5 to 60.05t	m: dark greenish g m: very sandy. Sar	grey. Sano	dy; sand is f	ine. Possibly	glauconitic.	6
		60.60 61.00 61.00 - 62.	50	D D				-100mm					60.55 to 60.7/ glauconitic. 60.7 to 60.85/ tight, clean, vi 60.7 to 60.9m 60.9 to 61.0m 61.0 to 61.9m	50.7m: dark greenish grey with rare partings of fine sand. Fic. 0.85m: fissure. 85 degree dip. Smooth, planar, slightly polis in, very stiff to extremely weak, unweathered. 0.85m: slity, very thinly laminated, with light grey slit partings 1.0m: slity, very thinly laminated, with light grey slit partings			d. Possibly olished, very ngs. ngs.	6	
		62.00			100	100	93					At 61.2m: fissure. 35 degree dip. Smooth, planar, slight Clean, very stiff to extremely weak, unweathered. At 61.3m: 30mm thick lense of weak claystone. At 61.3mm thick lense of weak claystone. At 61		ghtly polished	d, very tight,				
		02.00	\vdash								É	<u> </u>							
ole Bas	Diameter e Diameter	Casing Dia	ameter Diameter 200	· Dept	th Top	(Depth I	Chisell Base	ing Duration	Tool	In Depth Top	clination Depth Ba	and Orienta	tion Orientation	Depth Top Dep	oth Base	Drillin Type	g Flush Colour	Min (%)	Ma
			200																

Geo	-Environ	mental						R	otar	у Со	ore l	_og				
Project	Name: Lo	ndon Water Rec	ycling (L	WR)		С	Client: Th	ames Wate	r Utilities Ltd		C	Date: 18/09/2024				
Locatio	n: London					C	Contracto	or:			c	Co-ords: E515789.04 N174998.30				
Project	No. : GE2	1665				С	Crew Nar	ne:			C	Drilling Equipment:				
Bo	orehole Nu	umber	Hol	е Туре	9			Level		Logged I	Ву	Scale Page Number			ər	
	MT-00	5	CI	CP+RC			6	6.52m AoD		TL		1:25			Sheet 14 of	15
Well	Water	Depth (m)	Type /FI	C TCR	SCR	g RQD	Diamete Recover (SPT)	Depth (m)	Level (m)	Legend		Stratum	Descript	ion		
		(m) 62.50 - 64.00 63.00 63.40 - 63.80 64.00 64.00 - 65.50	D	100	SCR 100	93	-100mm	(m)	(m)		Very stiff to extremely weak br sandy CLAY, with rare medium of dark grey sandy clay. Sand very thinly laminated, predomi [Preliminary London Clay Forr LONDON CLAY FORMATION 462.1m: fissure. 60 Segree dip. Smooth, pl to extremely weak, unweathered. At 62.2m: 10mm thick fragment of fossilised surfaces. Whole core diameter. 62.6 to 63.1: fissure. 85 degree dip. Smooth bean, very stiff to extremely weak, unweath 62.6 to 63.6m: sitty with faint very thin laminu 63.3 to 63.9m: dark greenish grey, sandy. F At 63.8m: fossil shell (bivalve, 30mm diameted 63.9 to 64.8m: sitty and sandy, few clear lam At 64.0m: fossil shells (bivalves, up to 10mm			h grey si el-sized p . In place structurr subdivis ull, very tight lignite, with slightly pol nd rare silt p glauconitic.	Ity slightly patches es faintly eless. ion A2.] t, clean, very stift pyritised ished, very tight, partings.	63 -
		64.90 65.20	D	100	100	100	100mm	64.80 65.00	-58.28 -58.48		At 64.6m: fossili Very stiff fossil she HARWIC At 64.3m: layer (64.95 to 65.0m: Very stiff light bluis CLAY. Fis LAMBET	6m: fossilised and pyritised wood fragment. ery stiff brownish grey silty sandy CLAY w ssil shell fragments. IARWICH FORMATION 8m: layer of broken shell fossis. to 65.0m: base of unit contains medium gravel-sized ro ery stiff to extremely weak closely fissured ght bluish grey mottled yellowish brown sli LAY. Fissures have polished surfaces. AMBETH GROUP				65 -
Hole	Diameter	65.50 - 67.00	er	100	100	100	-100mm	66.10	-59.58		Very stiff bluish gre fissures t LAMBET	to extremely wea ey mottled red sli nave polished an H GROUP	ak closely f ghtly silty (d striated s	fissured I CLAY. Sc surfaces.	ight me	66 -
Depth Bas	se Diamete	r Depth Base Diam	eter De	pth Top	Depth	Base	Duration	Tool D	Pepth Top Depth	Base Inclination	n Orientation [Depth Top Depth Bas	е Туре	Colour	Min (%)	Max (%)
Rema	rks	1.00 20														
Hand d	ug pit to 1	.2m. CP drilled to	o 3m. Pr	elimin	ary Lo	ondon	Clay Fo	rmation sub	divisions bas	sed on visual	logs only.					

Γ

AGS

Geo	Environ	mental					F	Rot	ary		ore	Log				
Project	Name: Lo	ondon Wate	r Recyclir	ng (LWR)		Client: T	hames Wate	er Utilitie	s Ltd			Date: 18/09/2024				
Locatio	n: London	1				Contract	or:					Co-ords: E515789.04 N174998.30				
Project	No. : GE2	21665				Crew Name:						Drilling Equipment	:			
Bo	orehole Nu	umber		Hole Typ	e	Level Logged By						Scale Page Numb			er	
	MT-005 CP+RC			5	6.52m AoD	Ι.	.	TL		1:25		Sh	neet 15 of	15		
Well	Water	Depti (m)	ר וא /	/pe FI TCR		SPT)	Depth (m)	Le' (n	vel L n)	egend		Stratum E	Descriptio	n		
							67.00	-60	.48	X X X X	Very sti bluish g fissures LAMBE	ff to extremely weal prey mottled red slig have polished and TH GROUP End of Boreh	k closely fis htly silty C striated su	ssured lig LAY. Som Irfaces. 0m	ht ne	67
																68 -
																69
																70 -
																71
Hole Depth Ba	Diameter se Diamete	Casing I r Depth Base	Diameter Diameter	Depth Top	Chis Depth Base	elling Duration	Tool	In Depth Top	clination a Depth Bas	and Orienta	ation n Orientation	Depth Top Depth Base	Drilling Type	Flush Colour	Min (%)	Max (%)
Remo	urks	1.60	200													()
Hand d	ug pit to 1	.2m. CP dri	lled to 3m	n. Prelimir	nary Londo	on Clay Fe	ormation sul	bdivision	s based	on visual	logs only.				AG	S

		Unit	7, Danw	orth Farm		Borehole No.						
		Hurs BN6	tpierpoiı 9GL	nt		Borehole Log						
Geo-E	nvironn	nentalwww	.gesl.ne	t				•	Sheet 1 of 11			
Projec	t Name:	Londo	n Water F	Recycling (LWR)	Project No. GE21665		Co-ords:	516614E - 173670N	Hole Type			
Locatio	on:	Londo	on		Energy Ratio	(%):	Level:	7.54	Scale			
					Driller's Initial: Rid Tv	'pe:			1:20 Logged By			
Client:		Tham	es Water	Utilities Ltd	i tig i j	po.	Dates:	19/11/2024	JH / TL			
Well	Water Strikes	Sam	ple and l	n Situ Testing	Depth (m)	Level	Legend	Stratum Description				
2 ⊓ 2		Depth (m)	Туре	Results	()	()		Grass overlying clayey gravelly fine to n	nedium SAND.			
		0.30 0.30	B PID	PID=0.1ppm	0.20	7.34		Gravels are fine subangular flints Soft to firm brown sandy gravelly clay. S to coarse. Gravels were fine to coarse s angular brick and concrete fragments.	ands were fine ubangular to			
		0.80 0.80	B PID	PID=0.0ppm	0.80	6.74		Brown/grey silty clayey fine to medium S Occasional fine subangular gravels of fl LANGLEY SILT MEMBER	SAND. int			
		1.20 1.20 - 1.65 1.20 1.20	B D SPT PID	N=12 (1,1/2,2,3, PID=0.0ppm	5)							
		2.00 - 2.45 2.00 2.00	B CPT PID	B CPT N=18 (5 for 80mm/3,4,5,6) PID PID=0.0ppm	1.90	5.64		At 11.75m: fissure. 25 degree dip. Smooth, plana very tight, clean, very stiff, unweathered. Medium dense yellowish grey gravelly fi SAND. Gravels are fine to coarse angul flint. KEMPTON PARK GRAVEL	r, slightly polished, ine to coarse ar to subrounded 2 –			
		3.00 - 3.45 3.00 3.00	B CPT PID	N=25 (1,1/2,4,8,1 PID=0.0ppm	3.40	4.14		Medium dense yellowish grey very sanc Gravels are fine to coarse angular to su KEMPTON PARK GRAVEL	ly GRAVEL. brounded flint.			
		4.00 - 4.45	B CPT	N=23 (2 3/4 5 7	7)				4 -			
	Casing	Water	Strikes (mbgl)	Chiselling (mb	g) Demonstra							
Diamet	er Dept	h (m) Depth Stri	ke Rose t	o Depth from De	pth to Hand dug: G	round level to	1.2m. Cable perc	cussive: 1.2 to 10m. Rotary core (Geobore-S): 10 to 40	.5m.			
150	10		4.00						AGS			
				•					•			

		Unit 7 Hurstp	, Danw bierpoir	orth Farm It		Borehole I oa					
Geo-E	invironn	BN6 9 nentalwww.c	GL jesl.net	t					Sheet 2 of 1	1	
Projec	t Name:	London	, Water F	Recycling (LWR)	Project No.		Co-ords:	516614E - 173670N	Hole Type		
Locati	on:	London			Energy Ratio	(%):		7 54	Scale		
LUCali	011.	London			Driller's Initial:		Level.	1.54	1:20		
Client:		Thame	s Water	Utilities Ltd		pe:	Dates:	19/11/2024	JH / TL		
Well	Water Strikes	Samp	le and Ir	n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Descrip	otion		
	Casing	5.00 - 5.45 5.00 - 5.45 5.00 5.00 6.00 6.00 6.00 6.00 7.00 - 7.45 7.00 7.00 8.00 - 8.30 8.00 8.00	B CPT PID B CPT PID W W B CPT PID Filo	PID=0.0ppm PID=0.0ppm N=15 (2,2/3,3,4,5, PID=0.0ppm N=17 (2,3/3,4,5,5, PID=0.0ppm N=11 (1,2/2,3,3,5,2) PID=0.0ppm N=12 (1,2/2,2,3,5,2) PID=0.0ppm	5) 5.90 5) 5.90	1.64		Medium dense yellowish grey very Gravels are fine to coarse angular to KEMPTON PARK GRAVEL	sandy GRAVEL. to subrounded flint.	5 6 7 7 8 8	
Diame 150	ter Depth	h (m) Depth Strike 50 6.40	Rose to 4.80	Depth from De	pth to Hand dug: G	round level to	1.2m. Cable pero	cussive: 1.2 to 10m. Rotary core (Geobore-S): 10	to 40.5m.		

Unit 7, Danworth Farm							m						Borehole No	0.	
	1		Hurstp BN6 90	ierpoii GL	nt					MT-009	9				
Geo-E	nvironn	nenta	lwww.g	esl.ne	et						-	.	Sheet 3 of 1	11	
Projec	t Name:		London	Water I	Recy	cling	(LWR)	Pro	oject No.		Co-ords:	516614E - 173670N	Hole Type	•	
								GE	21665 nerav Ratio	(%)			CP+RC Scale		
Location	on:		London					Dri	ller's Initial:	(70).	Level: 7.54		1:20		
Client [.]			Thames	Water	l Itiliti	ios I t	d		Rig Ty	pe:	Dates:	19/11/2024	Logged By	/	
chem.	1		mames	Water	Ount		u		1	1	Dates.	19/11/2024	JH / TL		
Well	Water Strikes		Sample	e and I	n Sit	u Tes	ting		Depth Level		Legend	Stratum Description			
	SUIKES	Dep	oth (m)	Туре		Re	Results		(11)	(11)		Medium dense vellowish grev gravelly fi	ne to coarse		
												SAND. Gravels are fine to coarse angula	ar to subrounded	-	
									8.30	-0.76	×	KEMPTON PARK GRAVEL	/	-	
											× × ×	CLAY. Sands are fine to medium. Occas	rownish grey sional fine	-	
									8.50	-0.96		subangular flint gravel.	/	-	
												Stiff very thinly laminated greyish brown silty CLAY.			
										-				-	
												-		-	
												-		-	
		9	9.00 0 - 9.45 9.00	В								-		9 —	
		9.00		D SPT	N	N=23 (2,3/5,5,6,7 PID=0.0ppm		6,7)				-		-	
		9	9.00	PID				n						-	
														-	
														-	
														-	
														-	
									9.70	-2.16	× ×	Very stiff very thinly laminated fissured o	revish brown		
											x_ <u>x</u> _x	slightly silty CLAY. [Preliminary London (Clay Formation	-	
											x_ <u>x</u> _x	LONDON CLAY FORMATION		-	
		18.80] : 18:45	D-			1 1				<u>× × -×</u>	-		10 -	
												-		-	
					100	07	07					-		-	
			10.40 0.50 - 12.00			100	21	21					-		-
		1		D								At 10.4m: coarse gravel-sized patch of dark grey very s	ilty clay.	-	
		10.50					+	-100mm				10.55 to 10.9m: fissure. 90 degree dip. Smooth, planar, tight, clean, very stiff, unweathered.	slightly polished, very	-	
												T10.55 to 10.9m: fissure. 90 degree dip. Smooth, planar, tight, clean, very stiff, unweathered. Orientated at 90 de fissure at same denth	slightly polished, very grees to other vertical	-	
												10.7 to 15.0m: silty. 10.7 to 11.3m: laminations indistinct.		-	
												10.75 to 10.85m: fissure. 60 degree dip. Smooth, plana clean, very stiff, unweathered.	r, polished, very tight,	-	
												TAT 10.85m: hissure. 0 degree dip. Smooth, planar, slighti clean, very stiff, unweathered. Iat 19.9m: 10mm diameter rounded pyrite podule.	ly polished, very tight,	-	
		1	1.00	D							xx	At 10.9m: fissure. 80 degree dip. Smooth, planar, polish very stiff, unweathered.	ned, very tight, clean,	11 -	
											××	10.95 to 11.3m: fissure. 90 degree dip. Smooth, planar, clean, very stiff, unweathered.	polished, very tight,	-	
					100	0.2	70					clean, very stiff, unweathered. Orientated at 90 degrees at same depth.	boilshed, very tight, to other vertical fissure	-	
					100	93	13					At 11.0m: fissure. 65 degree dip. Smooth, planar, polish very stiff, unweathered.	ed, very tight, clean,	-	
												11.3 to 11.4m: fissure. 70 degree dip. Smooth, planar, p very stiff, unweathered.	olished, very tight, clean,	-	
										1	xx	planar, slightly polished, clean, very stiff, unweathered. 11.4 to 11.6m; fissure 85 degree din Smooth planar s	supvertical, smooth,	-	
												tight, clean, very stiff, unweathered. 11.y to 12.0m: fissure. 85 degree dip. Smooth, planar, s	lightly polished, very	-	
												tight, clean, very stiff, unweathered. At 11.65m: fissure. 55 degree dip. Smooth, planar, sligh	tly polished, very tight,	-	
												Iclean, very stiff, unweathered. 11.85 11.9m: 50mm thick layer containing several find to fossilised worm burrows	o medium sand-sized	-	
												At 11.95m: fissure. 20 degree dip. Smooth, planar, sligh clean, very stiff, unweathered.	tly polished, very tight,	-	
		1	2.00	D	<u> </u>			100mm				At 11.95m: fissure. 65 degree dip. Smooth, planar, sligh clean, very stiff, unweathered. Dips in opposite direction	tly polished, very tight, n to other fissure at same	12 -	
		12.00	0 - 13.50									depth. At 12.0m: fissure. 90 degree dip. Smooth, planar, slight	ly polished, very tight,	-	
				Type/Fl	TCR	SCR	RQD		1			norean, very sun, unweaurered. Terminates against lamin	100010.		
Diamo	Casing	h (m)	Water Stri	ikes (mbgl))	Ch	iselling (r	nbgl) Depth to	Remarks			1			
150	10 10	.50	6.40	4.80	2	σεριή f		υεριπ το	Hand dug: G	round level to 1	L.2m. Cable per	cussive: 1.2 to 10m. Rotary core (Geobore-S): 10 to 40.	.5m.		
													AGS	5	
oject	Name: Lo	ndon Water Recy	cling (L	WR)		C	Client: Th	ames Water	Utilities Lto	I		Date: 19/11/2024			
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catio	n: London					0	Contracto	or:				Co-ords: E516614.04 N	173670.38	3	
oject	No. : GE2	1665				C	Crew Nar	ne:				Drilling Equipment:			
Bo	prehole Nu	ımber	Hole	е Туре	;			Level		Logged	Ву	Scale		Page Numb	er
	MT-009)	CF	P+RC			7	7.54m AoD		JH / TI	L	1:20		Sheet 4 of 1	11
Vell	Water	Depth (m)	Type /FI	TCP	Sorin	BOD	liamete (SPT) (SPT)	Depth (m)	Level (m)	Legend		Stratum Desc	ription		
		13.00	D	93	93	90					Very sti slightly Format LONDC 12.25 to 12.3 blean, very sti 12.3 to 13.0m 12.4 to 12.5m 12.4 to 12.5m 12.4 to 12.5m blean, very sti 12.6 to 12.8m 12.6 to 12.8m 12.75 to 13.0 might, clean, very sti 12.6 to 12.8m 12.6 to 12.8m 13.5 to 13.0m 15.5 to 13.5	iff very thinly laminated fii silty CLAY. [Preliminary I ion subdivision B2]. DN CLAY FORMATION m. fissure. 70 degree dip. Smooth fif, unweathered. :: Iaminations indistinct. mm diameter nodu.e of pyritised 1 :: fissure. 80 degree dip. Smooth, ery stiff, unweathered. m. yery stiff, unweathered. m. several very thin 20mm diame nd is fine. ure. 45 degree dip. Smooth, plan fif, unweathered. :: fissure. 80 degree dip. Smooth, plan diff, unweathered. :: fissure. 80 degree dip. diff, unweathered. :: fissure. 80 degree dip. Smooth, plan diff, unweathered. :: fissure. 80 degree dip. Smooth, plan diff, unweathered. :: fissure. 80 degree dip. Smooth, plan diff, unweathered. :: fissure. 80 d	ssured gre London Cl: h, planar, polis fossilised woo , undulating, s h, undulating, s h, undulating, s h, undulating, s orientations inn sible sets:S very tight, clea ean, very stiff, egree dip. Sm red. Terminata ef fossilised w	eyish brown ay shed, very tight, d. diightly polished, ver slightly polished, ver slightly polished, very tight, very tight, dark grey slightly lished, very tight, issure at 12.55m. dightly polished, ver consistent and to 12.050 to 80 degree dip. unweathered. ooth, planar, slightly es against set 1.	y y y
		13.50 - 15.00 14.00	D	100	67	67	- (31) 100mm				14.1 to 14.7m sharp knife. 14.1 to 14.5p tight, clean, ver 14.2 to 14.35p clean, very st 14.4 to 14.5m Several distur 14.5 to 14.7m clean, very st 14.6 to 14.7m clean, very st 14.6 to 15.0m 14.8 to 15.0m 14.8 to 15.0m	:: slightly sandy (sand is fine). Slig m: fissure. 45 degree dip. Smooth ery stiff, unweathered. m: extremely closely fissured. No m: fissure. 85 degree dip. Smooth fit, unweathered. Offset 5mm by : ure. 5 degree dip. Smooth, plana fit, unweathered. : extremely closely fissured, no bed partings of dark grey slightly fit. unweathered. m: extremely closely fissured, no m: extremely closely fissured, no cost state and the state of the state fit unweathered. : very closely fissured in three se relations. Smooth, planar slichtly.	ight gritty feelin h, planar, sligi b apparent set h, planar, polis subhorizontal ar, slightly poli clear consiste r sandy silt. Se , undulating, p o clear consist etsSet 1	ng when cut with htly polished, very s or consistent shed, very tight, fissure at 14.3m. shed, very tight, nt orientations. and is fine. solished, very tight, ient orientations. 10 to 30 degree dip vinth clean very	
		15.00 15.00 - 16.50	D	100	100	80	-100mm				- stiff, urweath dip. Smooth, J Set 3 _ 70 tc Very stiff, urweath 15.0 to 15.1 m 15.0 to 15.1 m 15.0 to 15.1 m 15.0 to 15.0 to 15.1 tight, clean, vi 15.0 to 15.0 to 15.1 tight, clean, vi 15.0 to 15.0 to 15.1 tight, clean, vi 41.15.25m: fir 15.3 to 15.55i very tight, clean At 15.65m: tw polished, very 15.7 to 16.1 m vicht, clean, vi	ered. Persistent across core dia- polanar, slightly polished, very tigh 90 degree dip. Smooth, planar, reathered. Orientated at about 6 sil conical gastropod shell. Smm ting of dark grey silt. :: fissure. 70 degree dip. Smooth, ery stiff, unweathered. pm: silty to very silty. Gritty feel v ery stiff, unweathered. Dip directi ne gravel-sized patch of dark grey m: fissure. 80 degree dip. Smoot an, very stiff, unweathered.	neterSet 2 ht, clean, very slightly polish 0 degrees clou n diameter, 15 , planar, slight when cut with h, planar, slight ver status ion is about 90 y silty fine san h, undulating, a dip. Smooth, red. , planar, slight	1 50 090 degree stiff, unweathered. ed, very tight, clean ckwise to set 2. mm length. ily polished, very sharp knife. phtly polished, very 0 degrees to fissure d. slightly polished, planar, slightly ly polished, very	
Hole	Diameter	Casing Diamet	er			Chisel	ling		Inclinat		15.8 to 16.0m tight, clean, vi 15.7m.	r fissure. 80 degree dip. Smooth, ery stiff, unweathered. Dips in op	planar, slight posite directio Drilling Flust	ly polished, very on to fissure at	
h Ba	se Diameter	Depth Base Diam	eter Dep	oth Top	Depth	Base	Duration	Tool De	pth Top Dept	n Base Inclinatio	on Orientation	Depth Top Depth Base Ty	ype Col	our Min (%)	M



Geo	Environ	mental						F	Rc	ota	ry	C	ore	Lo	g				
Project	Name: Lo	ndon Water Rec	ycling (L	WR)		C	Client: Th	ames Wa	iter Ut	tilities Lto	ł			Date: 19)/11/2024				
Locatio	n: London					C	Contracto	r:						Co-ords	: E516614	.04 N1736	70.38		
Project	No. : GE2	1665				C	Crew Nan	ne:						Drilling E	Equipment	:			
Bo	orehole Nu	umber	Hole	е Туре	•			Level				Logged	Ву		Scale		P	age Numb	er
	MT-00	9	CF	P+RC			7	.54m AoD			_	JH / TI	L		1:20		5	Sheet 5 of 1	1
Well	Water	Depth (m)	Type /FI	C	Corin	g	iamete ecover (SPT)	Depth (m)	n	Level (m)	Le	egend		S	stratum D	Descripti	on		
		(m) 16.00 16.50 - 18.00 17.00	D	93	93	93	-100mm	(m)		(m)			Very sti slightly Formati LONDC 16.05 to 16.27 light, clean, vi 16.05 to 16.27 light, clean, vi 16.05 to 16.27 light, clean, vi 16.25 to 16.37 light, clean, vi 16.5 to 16.397 light, clean, vi 16.5 to 16.97 light, clean, vi 16.5 to 17.07 light, clean, vi 17.1 to 17.557 light, clean, vi 17.5 to 17.55 to 18.07 light, clean, vi 17.5 to 17.557 light, clean, vi 17.7.77 light, clean, vi 17.7.77 light, clean, vi 17.7.777 light, clean, vi 17.7.7777 light, clean, vi 17.7.77777 light, clean, vi 17.7.777777777777777777777777777777777	ff very thi silty CLA ion subdii <u>DN CLAY</u> m: fissure. 9 ery stiff, unw fr. fissure. 9 ery stiff, unw sightly se sure. 15 de gry stiff, unw stiff, unweather m: fissure. 45 ery stiff, unw stiff, unw	inly lamina Y. [Prelimin vision B2]. FORMATI 0 degree dip. reathered. 0 degree dip. reathered. 0 degree dip. 5 degree dip. 5 degree dip. 85 degree dip. 85 degree dip. 95 degree dip. 95 degree dip. 10 90 degree unweathered. 0 degree dip. 10 90 degree unweathered. 10 degree dip. 10 degree dip	ted fissure nary Londi ON Smooth, plan. Smooth, plan. ine). Contain: mooth, plana, si Smooth, plana, si Smooth, plana, direction is a mooth, plana, smooth, plana oparallel with dip. Smooth, plan sin same diri Smooth, plan si n same diri Smooth, plan	ad greyish on Clay ar, slightly pr ar, slightly pr degrees to c s several sair, slightly polishi ar, slightly polishi ar, slightly polishi ar, slightly po nar, slightly po fissure at 16 planar, slightly po fissure at 16 planar, slightly po ar, slightly po ar, slightly po direction as fiss ar, slightly p direction as fiss ar, slightly p direction as af s, slightly pa direction as af ar, slightly pa direction as af ar, slightly pa direction as ar, slightly pa direction as ar, slightly pa direction as ar, slightly pa direction as af ar, slightly pa ar, slightly pa direction as af ar, slightly pa ar, sl	Dished, very blished, very ther fissure at nd-sized shell ished, very ed, very tight, blished, very rees to fissure ished, very ished, very 5m. blished, very 5m. blished, very blished, very fissure at blished, very 17.7m, 0. Smooth, ed, very tight,	16
		18.00 18.00 - 19.50 19.00	D	100	63	63	- (31) 100mm						Clean, very sti Att 17.82m: fis Clean, very sti 17.95 to 18.0° edge of core. Unweathered. 18.0 to 19.25r 18.5 to 18.7m tight, clean, ver 18.7 to 18.8m 16.8 to 19.1m 16.8 to 19.1m 16.8 to 19.1m 17.8 to 18.5 to 18.9m 17.8 to 19.1m 17.8 to 18.5 to 18.9m 17.8 to 18.5 to 18.5 to 18.5 to 18.7 to 18.7 to 18.7 to 18.8 to 18.7 to 18.7 to 18.8 to 19.1 to 19.	ff, unweathe stre. 30 degr ff, unweathe m: sister. 1 Smooth, pla m: silty : fissure. 1 Smooth, pla m: silty : fissure. 90 ery stiff, unw : fissure. 90 ery stiff, unw	red. gree dip. Smoo red. Parallel v o degree dip. Smoo bred. Parallel v 0 degree dip. Smoo degree dip. S veathered. degree dip. S veathered. Sar 5 degree dip. Smool reathered. ee dip. Smool red. Smool	oth, planar, sl with fissure at th, planar, slig with fissure at curving sharp olished, very t mooth, plana, mooth, plana entated at 90 mooth, plana re dorientatic Smooth, planar, slig th, planar, slig	ightly polish 17.75m. 17.75m. 17.75m. 17.75m. Iy to 90 deg. Ight, clean, ' r, slightly pol degrees to v r, slightly pol n as vertica ar, slightly polished	ed, very tight, d, very tight, reedip near rery stiff, iished, very iished, very rertical fissure iished, very if fissure at olished, very d, very tight,	18
Hole Depth Bas	Diameter se Diamete	19.50 - 21.00 Casing Diamet r Depth Base Diam 10.50 15	ier eter Dep 0	oth Top	Depth	Chisel	-100mm ling Duration	19.25	Depth	-11.71	×		19.2 to 22.0m Decreasing se Very stil sitty to v Formati LONDC 19.25 to 19.37 undulating, sli At 19.6m: fos 19.6 to 19.75 - undulating, sli At 19.6m: fos 19.6 to 20.2r very tight, clea	very silty, z and content ff very thi very silty on subdi DN CLAY n: extremely n: fissure 8 ghtty polishe silised wood n: fissure 8 ghtty polishe silised wood n: fissure 9 an, very stiff, Depth Top	isightity sandy (with depth, be inly lamina CLAY. [Pre vision B1]. FORMATI r closely fissur of degree dip. ded, very tight, fragment. 5m 0 degree dip. d degree dip.	isand is fine). ccoming only ted fissure ted fissure liminary L ON red. curving to 40 clean, very st. m thick, most Smooth, undu Drilling Type	Lamination: very sitty by ad greyish ondon C degreesat b iff, unweather of core diar ulating slight g Flush Colour	as indistinct. 22.0m. b brown ay ase. Smooth, ared. reed. y polished, Min (%)	
Rema	rks																		



Location: London Contractor: Co-ords: E5166 Project No. : GE21665 Crew Name: Drilling Equipme Borehole Number MT-009 Hole Type CP+RC Level 7.54m AoD Logged By JH / TL Scale Well Water Depth (m) Type TCR Coring TCR Non Depth TCR Very stiff very thinky lamin sitty to very	14.04 N17367 nt: Descriptic	73670.38 Page Shee ption sured greyish bro ry London Clay har, slightly polished, ve ting, slightly polished, ve ting, slightly polished, ve ry slightly polished, ver sightly polished, very ti slightly polished, very ti polished, very tight, d spolished, very tight, d polished, very tight, d spolished, very tight, d spolished, very tight, d mar, slightly polished, ve r as fissure at 20.75m aner, slightly polished, ve si slightly polished, ve s slightly polished, ve slightly polis	e Number et 6 of 11 own very tight, 20 - rery tight, 20 - rery tight, d, very ry tight, clean, clean, clean, red. clean, d, very ery tight, ny tight, d, very ery tight, d, very ery tight, d, very ery tight, d, very	
Project No. : GE21665 Crew Name: Drilling Equipme Borehole Number MT-009 Hole Type CP+RC Level 7.54m AoD Logged By JH / TL Scale Well Water Depth (m) Type TCR Coring TCR Image: Scale JH / TL 120 20.00 D Total Scale Depth (m) Level (m) Level (m) Legend Stratum 20.00 D Scale	nt: Description The second s	Page Shee ption sured greyish bro ry London Clay har, slightly polished, ve ry London Clay har, slightly polished, ve r, slightly polished, ver tring, slightly polished, ver ting, slightly polished, ver slightly polished, very ting, slightly polished, ver polished, very tight, of the strissure 20,75m lanar, slightly polished, ver s slightly polished, ver tring, slightly polished, ver tring, slightly polished, ver tring, slightly polished, ver s slightly polished, ver s slightly polished, ver s slightly polished, ver s slightly polished, ver lanar, slightly polished olanar, slightly polished undulating, slightly polished	e Number et 6 of 11 own very tight, 20 - rery tight, 20 - rery tight, d, very rry tight, clean, clean, clean, d. very ery tight, d, very ery tight, d, very ery tight, d, very ery tight, d, very	
Borehole Number MT-009 Hole Type CP+RC Level 7.54m AoD Logged By JH / TL Scale 120 Well Water Depth (m) Type /FI Coring ToR SCR ROD Depth (m) Level (m) Level (m) Level Legend Very stiff very thinly lamin silty to very stiff very thinly lamin silty to very stiff very thinly cLAY. If Some result is the very stiff very thinly cLAY. If Some result is the very stiff very thinly class silty to very st	Descriptic Teliminary Lo II. TION mooth, planar, sli diameter, 30mm oof fragment. 5 x mooth, planar, sligt ooth, planar, sligt ooth, planar, sligt cooth, planar, sligt cooth, planar, planar, planar, ssured. Smooth, planar, planar, planar, signity polis Smooth, planar, sligt ooth, planar	Page Shee ption sured greyish bro ry London Clay har, slightly polished, ve Omm length. . 5 x 10 x 12 mm. r, slightly polished, ve titing, slightly polished, ver titing, slightly polished, ver polished, very tight, d anar, slightly polished, ver a st fissure at 20.75m anar, slightly polished, ve a st fissure at 20.75m anar, slightly polished olanar, slightly polished polanar, slightly polished polanar, slightly polished polanar, slightly polished polanar, slightly polished	e Number et 6 of 11 own very tight, 20 - rery tight, 20 - rery tight, d, very ry tight, itight, clean, clean, d, very rery tight, n, d, very ery tight, n, d, very solished,	
Well Water Depth (m) Type /FI Coring TCR SCR RQD Depth (m) Level (m) Legend Stratum 20.00 D Image: Sign RQD D Image: Sign RQD Very stiff very thinky lamin sitty to very still CLAY, FOR CONTROL CLAY FORMAT Very stiff very thinky lamin sitty to very still CLAY, FOR CONTROL CLAY FORMAT 20.00 D Image: Sign RQD Image: Sign RQD Image: Sign RQD Very stiff very thinky lamin sitty to very still CLAY, FORMAT 20.00 D Image: Sign RQD Image: Sign RQD Image: Sign RQD Very stiff very thinky lamin sitty to very still class were still class were still unweathered. Image: Sign RQD Very stiff very thinky lamin sitty to very still class were still class were still unweathered. Image: Sign RQD Very stiff very thinky lamin sitty to very still class were still class were still unweathered. Image: Sign RQD Very stiff very thinky lamin sitty to very still class were still class were still unweathered. Image: Sign RQD Very stiff very thinky lamin sitty to very still class were still class were still unweathered. Image: Sign RQD Very stiff unweathered.	Descriptic nated fissured reliminary Lo II. TION Smooth, planar, sl diameter, 30mm diameter, 30mm pooth, planar, sligt aced 15 to 30mm pht, clean, very sl ssured. Smooth, planar, sligt aced 15 to 30mm pht, clean, very sl ssured. Smooth, planar, polisi fissure at 20.4m. Do for ee extrem and slightly polisi Smooth, planar, sligt Doth, planar, sl	ption sured greyish bro ry London Clay har, slightly polished, v Omm length. t. 5 x 10 x 12 mm. r, slightly polished, ver stightly polished, ver slightly polished, ver slightly polished, ver slightly polished, ver polished, very tight, d polished, very tight, d polished, very tight, d anar, slightly polished ar, slightly polished, ver s slightly polished, ver lanar, slightly polished polanar, slightly polished polanar, slightly polished	rown very tight, 20 - rery tight, d, very vry tight, ee dip. d. tight, clean, clean, ired. clean, d, very very tight, n, d, very ery tight, d, very very tight, d, very very tight,	· · · · · · · · · · · · · · · · · · ·
20.00 D 20.00 D 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 93 94 100 mm 94 100 mm 95 100 mm 94 100 mm 95 100 mm 93 100 mm 94 100 mm 95 100 mm 94 100 mm 95 100 mm 96 100 mm 97 100 mm 98 100 mm 99 100 mm 93 100 mm 94 10 mm meathered 95 10 mm meathered 96 100 mm 97 10 mm 98 10 mm 99	The second secon	sured greyish bro ry London Clay har, slightly polished, v Omm length. . 5 x 10 x 12 mm. r, slightly polished, ver slightly polished, ver slightly polished, ver slightly polished, ver slightly polished, ver polished, very tight, o lanar, polished, very tight, o and ar, slightly polished, ver slightly polished, ver slightly polished, ver slightly polished, ver slightly polished, ver lanar, slightly polished, ver slightly polished, ver slightly polished, ver lanar, slightly polished olanar, slightly polished	very tight, 20 very tight, 20 very tight, 4, very vy tight, 4, very very tight, 21 very tight, 21 very tight, 21 very tight, 21	· · · · · · · · · · · · · · · · · · ·
22.00 D	 Smooth, planar, slightly polished, very tight, m diameter, 30mm length. wood fragment. 5 x 10 x 12 mm. Smooth, planar, slightly polished, very tight, Smooth, planar, slightly polished, very tight, is paced 15 to 30mm apart. 40 degree dip. y tight, clean, very stiff, unweathered. y fissured. Smooth, planar, polished, very tight, is paced 15 to 30mm apart. 40 degree dip. y tight, clean, very stiff, unweathered. y fissured. Smooth, planar, polished, very tight, clean, in fissure 32 0.4m. action of core extremely closely fissured. planar, slightly polished, very tight, clean, in fissure 32 0.4m. action of core extremely closely fissured. planar, slightly polished, very tight, action of core extremely closely fissured. planar, slightly polished, very tight, action of core extremely closely fissured. planar, slightly polished, very tight, action of core extremely closely fissured. planar, slightly polished, very tight, me dip direction as fissure at 20.75m. dip. Smooth, planar, slightly polished, very d. Smooth, planar, slightly polished, very tight, thered. Smooth, planar, slightly polished, very tight, railel with fissure with same dip angle at dip. Smooth, undulating, slightly polished, thered. Smooth, planar, slightly polished, very tight, railel with fissure with same dip angle at dip. Smooth, undulating, polished, very tight, railel with fissure spaced at between 5 and ty polished, very tight, clean, very stiff, dip. Smooth, undulating, polished, very tight, Smooth, planar, slightly polished, very tight, finates against laminations. Smooth, planar, slightly polished, very tight, finates against laminations. Smooth, planar, slightly polished, very tight, finates against laminations. Smooth, planar, slightly polished, very tight, Timo		ry tight, at 21.4.m ered. polished, pry tight, le at	-
22.50 - 24.00 (38)	Smooth, undula Srientated at 90 of Traintated at 90 of Traintated at 90 of Traintated at 90 of Traintated at 90 of Traintates against lam Traintates against lam Train	planar, slightly polished, very tight, fissure with same dip angle at both, undulating, slightly polished, very ated at 90 degrees to other vertical sures spaced at between 5 and ad, very tight, clean, very stiff, both, undulating, polished, very tight, against laminations. planar, slightly polished, very tight, , planar, slightly polished, very tight, planar, slightly polished, very tight, pooth, undulating, polished, very tight, tooth, undulating, polished, very tight,		_
23.00 D 93 63 40	nooth, planar, slig degree dip. Smoo unweathered. Ter ooth, planar, sligt	r, slightly polished, ve Smooth, planar, slight d. Terminates against . slightly polished, ver rr, slightly polished, ver	23 - rery tight, htty t other ery tight, rery tight,	· · · · · · · · · · · · · · · · · · ·
Hole Diameter Casing Diameter Chiselling Inclination and Orientation Depth Base Diameter Depth Top Depth Base Duration Openth Top Depth Base Duration Openth Top Depth Base Depth Base Inclination Openth Top Depth Base Depth Base Depth Base Depth Top Depth Top Depth Base Depth Base Depth Top Depth Top Depth Base Depth Top Depth Top Depth Base Depth Top Depth Base Depth Base Depth Top Depth Top Depth Base Depth Top	Drilling	illing Flush Colour M	Min (%) Max (%)	6)

Remarks



ect	Name: Lo	ndon Water	Recyc	ling (L	WR)		C	lient: Th	ames Wate	er Utilitie	s Ltd			Date: 19	/11/2024				
ation	n: London						C	Contracto	r:				,	Co-ords:	E516614	.04 N1736	3670.38 Page Number Sheet 7 of 1 Tred greyish brown (London Clay g, slightly polished, very tight, slightly polished, very tight, anar, slightly polished, very direction to fissure at 24.05m. very stiff, unweathered. polished, very tight, clean, anar, polished, very tight, ang this fissure). slightly polished, very tight, taminations. rply to 90 degrees at edge of lished, very tight, clean, very polished, very tight, clean, very solished, very tight, clean, very solished, very tight, clean, tight, polished, very tight, taminations. rply to 90 degrees at edge of lished, very tight, clean, very polished, very tight, clean, ting, polished, very tight, solished, very tight, clean, tulating, polished, very tight, slightly polished, very tight, slightly polished, very tight, slightly polished, very tight, anar, dull, very tight, clean, anar, dull, very tight, clean, lanar, dull, very tight, clean, anar, dull, very tight, clean, banar, slightly polished, very and is fine). Sightly polished, very tight, anar, slightly polished, very and polished, very tight, anar, slightly polished, very and polished, very tight, anar, slightly polished, very and polished, very tight, and, slightly polished, very and polished, very tight, anar, dull, very tight, clean, anar, dull, very tight, clean, anar, dull, very tight, clean, anar, slightly polished, very and solut 90 degrees to fissure		
ect	No. : GE2	1665					C	Crew Nan	ne:					Drilling E	quipment	:			
Bc	orehole Nu	mber		Hol	е Туре	e		7	Level			Logged E	Зу		Scale		P	age Numb	er 11
	Wator	Depth	ן ו	Туре		orin	g	neter overy oT)	Depth	Le	vel			¢.	tratum D)ocorinti			
1	vvalei	(m)		/FI	TCR	SCR	RQD	Dian Rec (SI	(m)	(n	n)		Vory stif	5 Eveny this				brown	_
		24.00 24.00 - 25	5.50	D				-100mm					Very skill silty to v Formatic LONDO At 23.6m: fissu clean, very skilf At 23.6m: fissu clean, very skilf 23.65 to 23.8m (23.95 to 24.0m 23.95 to 24.0m 23.95 to 24.0m 23.95 to 24.0m 24.15 to 24.2m Smooth, planai At 24.35m: fiss very stiff, unver 24.35 to 24.5m clean, very skilf 24.45 to 24.65	very silly (or subdiv N CLAY re. 0 degree ; unweather re. 50 degree ; unweather : fasure. 30 y stiff, unwa : fasure. 30 y stiff, unwa ; fasure. 30 y stiff, unweather r. fasure. 30 g stiff, unweather r. fasure. 30 ; slightly po ure. 65 deg athered. ; fasure. 30 (; fasure. 30 y stiff, unweather r. fasure. 30 y stiff, unweather r. fasure. 30 y stiff, unweather r. y seven stiff, unweather r. y explose	CLAY. [Pre- rision B1]. FORMATI a dip. Smoothered a dip. Smoothered b degree dip. Smoothered is indistinct, v s of pyritised 5 degree dip. d degree dip. 0 degree dip.	eliminary I eliminary I on on context eliminary I cossilised wo smooth, plan opposite diu ght, clean, vo oth, planar, p Smooth, plan it easily alon	London C slightly polis ghtly polished ar, slightly polished ar, slightly polished rection to fissient olished, very par, polished, g this fissure	lay hed, very tight d, very tight, olished, very oolished, very sure at 24.05m eathered. tight, clean, very tight,).	i.
		25.00		D	90	90	27						At 24.75m: fiss clean, very stiff 24.75 to 24.9m stiff, unweather very stiff, unwe At 24.75m: fiss very stiff, unwe 25.2 to 25.6m: clean, very stiff	ure. 60 deg (unweathe: : fissure. 0 olanar (exce red. ure. 5 degr athered. i. unweather athered. fissure. 85 o (unweather	ree dip. Smoo red. Terminati degree dip. ci aptfor curve), ee dip. Smoo red. se dip. Smoo degree dip. S red.	oth, planar, s. ss against lai rving sharpf slightly polisi h, planar, po oth, undulatir h, planar, po mooth, undu	lightly polishi minations. y to 90 degrr hed, very tigi lished, very ti ng, polished, lished, very t lating, polish	ed, very tight, es at edge of 1, clean, very ight, clean, very tight, ight, clean, ed, very tight,	
• •		25.50 - 27	7.00					100mm				<u> </u>							
		26.00		D	30	30	20		25.70	-18	.16		At 23.65m: fiss striated, very til very stiff silty to v Formatiu LONDO 25.7 to 26.9m: At 25.75m: fiss dean, very stiff At 25.8m: fissu clean, very stiff 25.85 to 26.0m polished, very 25.95 to 26.05; 26.0 to 26.35; 26.0 to 26.35; 26.0 to 26.35; 26.0 to 26.35; very stiff, unwe 26.25 to 26.56; very stiff, unwe 26.75 to 26.85; very stiff, unwe 26.75 to 26.85; very stiff, unwe 26.75 to 26.85; very stiff, unwe 26.75 to 26.85; very stiff, unwe	ure. 45 deg ure. 45 deg ure. 45 deg ure. 10 deg ure. 10 deg ure. 10 deg ure. 10 deg ure. 10 deg ure. 40 degrate issure. 85 unweather issure. 85 unweather issure. 85 unweather issure. 85 unweather issure. 85 unweather issure. 85 unweather issure. 85 unweather issure. 85 unweather issure. 85 unweather issure. 80 unweather u	ree dip. Smoorery stiff, unw nly lamina CLAY. [Pre- rision A3]. FORMATI nated. Slightly ree dip. Smoot ed. ed dip. Smoot ed. degree dip. S 5 degree dip. 5 degree dip.	oth, undulatir eathered. ted fissure eliminary I ON sandy (sand th, planar, si Smooth, und veathered. H rred. Smooth, plana Smooth, plana direction to Smooth, plana Smooth, plana Smooth, plana Smooth, plana	ing, polished a ed browni _ondon C lightly polished ulating, dull t as concave : ar, dull, very t har, dull, very t har, dull, very t nar, dull, very t anar, dull, very t anar, slightly j	and slightly sh grey lay ed, very tight, d, very tight, o slightly surface across ight, clean, tight, clean, ure at 26.25m ight, clean, polished, very	,
		27.00 27.00 - 28	3.50	D				-100mm			1		A 26.8m; fissu clean, very stiff 26.9 to 27.0m; 1ght, clean, ver 26.95 to 27.0m tight, clean, ver at 26.9m.	re. 5 degree f unweather fissure. 65 y stiff, unwo : fissure. 50 y stiff, unwo	e dip. Smooth red. degree dip. S aethered. 0 degree dip. S eathered. 0 degree dip. S eathered. Dip	, planar, sligi mooth, plana Smooth, plan direction is a	htly polished, ar, slightly po par, slightly p about 90 deg	very tight, lished, very olished, very rees to fissure	
e Bas	Diameter e Diameter	Casing Depth Base	Diameter	r er De	pth Top	Depth	Chisel _{Base}	ling Duration	Tool	Depth Top	clination Depth Ba	and Orientat	tion Orientation	Depth Top	Depth Base	Drillin Type	g Flush Colour	Min (%)	M
	Diameter	10.50	150			Sopur		20.0001		- opan top	- opui De		. chomation	20001100	12 3 2 1 2 3 2 1 2 3 2	- 946			

Projec	Name: Lo	ondon Wate	r Recycling (L	WR)		C	Client: Th	ames Water	Utilitie	s Ltd		Date: 19/11/2024
Locatio	on: Londor	1				(Contracto	r:				Co-ords: E516614.04 N173670.38
Projec	: No. : GE2	21665				(Crew Nan	ne:				Drilling Equipment:
E	orehole N	umber	Hol	е Туре	9		_	Level			Logged	d By Scale Page Num
	M1-00	9 Dent			orin) ery te	.54m AoD			JH / II	IL 1:20 Sheet 8 of
Well	Water	(m)	/FI	TCR	SCR	9 RQE	C Diame Recove (SPT	(m)	(r	n)	Legend	Stratum Description
		28.00 28.10 - 2 28.50 - 3 29.00 29.60 - 3 30.00 30.00 - 3	0) D 8.45 C 0.00 D 0.00 C 0.00 C	100	67	53 93 20	-100mm	30.00	-22	2.46		 Very stiff very thinly laminated fissured brownish grey silty to very silty CLAY. [Preliminary London Clay Formation subdivision A3]. LONDON CLAY FORMATION Af 27: 35m: 15 mm thick layer of extremely week light greyish brown silty laystone. Z7: 56 28.1m: slightly sandy (sand is fine). Af 27: 7m: parting of light grey silty fine sand. Af 27: 7m: parting of light grey silty fine sand. Af 27: 7m: parting of light grey silty fine sand. Af 27: 7m: parting of light grey silty fine sand. Af 27: 7m: parting of light grey silty fine sand. Af 27: 7m: parting of light grey silty fine sand. Af 27: 7m: core below daystone is extremely closely fissured. Af 28: 10: 28.1m: fissure. 50 degree dip. Smooth, planar, slightly polished, very light, clean, very stiff, unweathered. Af 28: 10: 28.1m: fissure. 90 degree dip. Smooth, planar, slightly polished, very light, clean, very stiff, unweathered. Af 28: 50: 28.0m: fissure. 90 degree dip. Smooth, planar, slightly polished, very light, clean, very stiff, unweathered. Af 28: 50: 29.0m: fissure. 90 degree dip. Smooth, planar, slightly polished, very light clean, very stiff, unweathered. Af 28: 50: 20.0m: fissure. 90 degree dip. Smooth, planar, slightly polished, very light clean, very stiff, unweathered. Af 28: 50: 20.0m: fissure. 90 degree dip. Smooth, planar, slightly polished, very light clean, very stiff, unweathered. Af 28: 50: 20.0m: fissure. 90 degree dip. Smooth, planar, slightly polished, very light, clean, very stiff, unweathered. Af 28: 50: 20.0m: fissure. 90 degree dip. Smooth, planar, slightly polished, very light, clean, very stiff, unweathered. Af 28: 50: 20.0m: fissure. 90 degree dip. Smooth, planar, slightly polished, very light, clean, very stiff, unweathered. Af 28: 50: 20.0m: slightly sandy. Sand is fine.

Hole Diameter Inclination and Orientation Drilling Flush Casing Diameter Chiselling Depth Base Diameter 10.50 150 Depth Top Depth Base Duration Tool Depth Top Depth Base Inclination Orientation Depth Top Depth Base Min (%) Max (%) Depth Base Diameter Туре Colour

Remarks

Hand dug: Ground level to 1.2m. Cable percussive: 1.2 to 10m. Rotary core (Geobore-S): 10 to 40.5m.



Page Number

Sheet 8 of 11

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30

Project	Name: Lo	ndon Water Rec	ycling (L	WR)		С	lient: Th	ames Wate	r Utilities	Ltd			Date: 19/11/2024				
Locatio	n: London					C	Contracto	r:					Co-ords: E516614	.04 N1736	370.38		
Project	No. : GE2	1665				С	rew Nan	ne:					Drilling Equipment	:			
Bo	orehole Nu	Imber	Hol	е Туре	e		-	Level				Зу	Scale		F	ər	
	M1-009	9 Denth			orin	a) ery	.54m AoD		ച	JH / IL		1:20			Sheet 9 of 1	1
Well	Water	(m)	/FI	TCR	SCR	RQD	Diame Recov (SPT	(m)	(m))	Legend		Stratum [Descripti	on		
		31.50 - 33.00 32.00	D	87	53	53	- (49) 100mm	31.50	-23.9	96		Very sti silty to Format LONDC	iff very thinly lamina very silty CLAY. [Pr ion subdivision A3]. DN CLAY FORMAT DN CLAY FORMAT m: fissure. 90 degree dip. y polished, very tight, clear ting of dark greyish silty fin m: fissure. 30 degree dip. ery stiff, unweathered. Dip arting of light grey silt. arting of light grey silt.	ted fissure eliminary L ON 	ed browni ondon C nallyto 85 de nweathered ar, slightly p direction to greyish brow	sh grey lay grees. Smooth olished, very fissure at wn silty CLAY.	32
		33.00 33.00 - 34.50 33.20 - 33.50	C				-100mm					At 32.95m: 5r fine. At 33.2m: 3m At 23.35m: fis properties as	mm thick layer of dark gre m thick layer of weakly ce ssure. 45 degree dip. Smc lies with core subs ample	vish brown sili mented dark t	ty sandy CL grey silty find Inable to det	AY. Sand is e sand. ermine other	33
		34.00	D	93	93	60						33.6 to 23.75i to 5mm spaci stiff, unweath 33.9 to 34.15i tight, clean, vi At 34.0m: par 34.1 to 34.2m degree dip in tight, clean, vi At 34.3m: par	m: two subparallel fissure. ing at base. Smooth, plane ered. m: fissure. 90 degree dip. ery stiff, unweathered. ting of light greyish brown: n: very closely fissured. Fi same direction and are si ery stiff, unweathered. ting of light grey silt.	s. 90 degree c ar, slightly poli - Smooth, plan - silt. - sures predon nooth, planar, -	tip, to mm sj ished, very t ar, slightly p ninantly havo slightly poli	pacingreducing ight, clean, ver olished, very e 5 to 20 shed, very	34
		34.50 - 36.00					-100mm					34.4 to 34.5m tight, clean, vi 	r: fissure. 85 degree dip. 5 ery stiff, unweathered. arting of dark grey silt. 5m: fissure. 90 degree dip ery stiff, unweathered.	ey silt egree dip. Smooth, planar, slightly polished, very athered irey silt i degree dip. Smooth, planar, slightly polished, very athered.			
Hole	Diameter	Casing Diame	ter		L	 Chisell	ling		Incl	inatior	n and Orienta	tion		Drilling	g Flush		<u> </u>
Depth Ba	se Diameter	Depth Base Diam 10.50 15	ieter De	pth Top	Depth	Base	Duration	Tool D	epth Top D	epth B	ase Inclination	n Orientation	Depth Top Depth Base	Туре	Colour	Min (%)	Max



roject	Name: Lo	ndon Water Re	cycling (L	.WR)		C	Client: Th	ames Wate	er Utilitie	s Ltd			Date: 19/11/20	24				
ocatio	n: London					(Contracto	or:					Co-ords: E516	614.04 N173	73670.38 Page Numbe Sheet 10 of ' iption sured brownish grey ry London Clay vanar, slightly polished, very r, slightly polished, very tight, y very silty clay. lenses and coarse sand-sized veak. , planar, slightly polished, very tight, rstone. planar, slightly polished, very tight, 'stone. yaystone. iaystone.			
roject	No. : GE2	1665				C	Crew Nar	me:					Drilling Equipr	nent:				
B	prehole Nu	ımber	Hol	е Туре	;			Level			Logged E	Зу	Sc	ale	F	age Numb	er	
	MT-009	9	CF	P+RC			7	7.54m AoD			JH / TL	-	1::	20	S	heet 10 of	11	
Well	Water	Depth	Туре	C	orin	g	ameter covery SPT)	Depth	Le	vel	_egend		Stratu	m Descript	ion			
		35.00		TCR	SCR	RQD		(11)		II) x	- <u> </u>	Verv sti	ff verv thinly lar	ninated fissur	ed browni	sh arev	-	
				100	100	93						silty to Formati LONDC 35.0 to 35.1m tight, clean, very sti At 35.3m: fiss clean, very sti At 35.4m: 30n At 35.7m: 20n patches of ligh	very Śilty CĹAY. on subdivision NN CLAY FORN Sisure. 90 degree ry stiff, unweathere une. 30 degree dip. 3 ff, unweathered. mm thick layer of ligh mm thick layer of ligh	[Preliminary A3]. AATION dip. Smooth, plana, Smooth, planar, sli <u>torow</u> nish grey ve <u>torow</u> nish grey ve <u>torow</u> nish grey ve <u>roling</u> very thin lens <u>y silty</u> clay.	London C ar, slightly po ghtly polishe ary silty clay.	lay lished, very d, very tight, se sand-sized	35	
		36.00 36.00 - 37.50 36.60	D	87	40	33	-100mm										36	
					40	50						36.75 to 37.5r At 36.8m: par 37.0 to 40.5m	n: liner failed; core c	<u>isturb</u> ed.	к.		37	
		37.50 - 39.00	D	93	93	20	-100mm					37.55 to 37.61 light, clean, view At 37.6n: fiss clean, very sti 37.8 to 37.9m and are smoo unweathered. 37.95 to 38.07 light, clean, view At 38.05m: 5n 38.1to 38.25m At 38.25m: 10 -38.6 to 38.75r tight, clean, view At 38.7m: fiss clean, very sti	im: fissure. 90 degre ryr stiff, unweathered. ir.e. 25 degree dip. : ff, unweathered. ir.factured modera in: fractured modera in: fissure. 65 degre ry stiff, unweathere mm thick layer of dar is extremely closely f mm thick layer of wa mm thick layer of wa mm thick layer of wa fissure. 90 degree ure. 45 degree dip. : ff, unweathered.	e dip. Smooth, pl. d. Smooth, planar, sli d. Fissures mostly lished, very tight, <u>tely st</u> rong claysto dip. Smooth, plan <u>dip.</u> Smooth, plan <u>d</u> Smooth, planar, sli	anar, slightly , ghtly polishe (have 0 to10 clean, very s ne. nar, slightly p (sand is fine) stone.	polished, very d, very tight, d degree dip tiff, olished, very olished, very d, very tight,	38	
Hole pth Ba	Diameter se Diameter	Casing Diam	eter meter De	pth Top	Depth F	Chisel _{Base}	ling Duration	Tool	In Depth Top	clination Depth Ba	and Orienta	tion Orientation	Depth Top Depth	Drillin Base Type	g Flush Colour	Min (%)	Max	
		10.50	50	r												,		

and dug: Ground level to 1.2m. Cable percussive: 1.2 to 10m. Rotary core (Geobore-S): 10 to 40.5m.



Jeor	Name: Lo	ndon Water F	Recycling	g (LWR)		C	Client: Th	ames Wate	r Utilities L	td		[Date: 19/11	/2024					
catio	n: London					0	Contracto	r:				C	Co-ords: E5	516614.	04 N173	670.38			
oject	No. : GE2	1665				C	Crew Nar	ne:				[Drilling Equ	ipment:					
Bo	rehole Nu	umber	ŀ	Hole Typ	е			Level			Logged	Ву	:	Scale			Page Numb	er	
	MT-009	9		CP+RC			7	.54m AoD		.	JH / TL	L		1:20			Sheet 11 of	11	
/ell	Water	Depth (m)	Typ /F	pe (-I _{TCR}	Corin SCR	g RQD	Diamete Recover (SPT)	Depth (m)	Leve (m)		_egend		Stra	itum D	escript	Page Numbe Sheet 11 of 1 tion red brownish grey London Clay sandy claystone. ar, dull, very tight, clean, gree dip at top. steepening clean, very stiff, ; dull, very tight, clean, very 500m			
		39.00 39.00 - 40.9	50	97	97	60	= 100mm	40.50	-32.90			Very stiff silty to ve Formatio LONDON B8 75 to 38.85m At 38.95m: 3mm 39.4 to 39.9m: 1 Very stiff, unwest 193 45 to 39.9m to 85 degrees a unweathered.	very thinly rry silty CLJ n subdivision <u>N CLAY FO</u> <u>in moderately strate</u> <u>in thick layer of</u> <u>issure. 90 degr</u> <u>thered.</u> <u>issure. 90 degr</u> <u>sure. 90 degr</u>	Iaminat AY. [Pre on A3]. RMATI <i>strong gre</i> <i>strong gre</i>	eed fissur liminary ON one. claystone. clark grey mooth, plan face. 40 de t, very tight, one. cone.	red brown London C sandy claysi ar, dull, very gree dip at t clean, very ; dull, very ti 500m	iish grey Clay kone. tight, clean, op, steepening stiff, ght, clean, very		
Holo	Diametor	Casing Di	ameter			Chiec	lling		India	ation	and Oriente	ation							
h Bas	e Diamete	Depth Base 10.50	Diameter 150	Depth Top	Depth	Base	Duration	Tool E	Depth Top De	pth Ba	se Inclinatio	on Orientation	Depth Top De	epth Base	Туре	tion red brownish grey London Clay s. sandy claystone. ar, dull, very tight, clean, gree dip at top, steepening , clean, very stiff, r, dull, very tight, clean, very 500m			

		Unit 7	7, Danv	orth Farm					Borehole No.
	T	Hurst BN6 S	pierpoi 9GL	nt		Bo	reho	ole Log	MT-017a
Geo-E	Invironn	nentalwww.	gesl.ne	et 🛛				0	Sheet 1 of 16
Projec	t Name [.]	Londo	n Water	Recycling (IWR)	Project No.		Co-ords [.]	517363E - 171307N	Hole Type
				(co) cg ()	GE21665	. (0()			CP+RC
Locati	on:	Londo	n		Energy Rat	10 (%):	, Level:	7.84	Scale
					Rig 1	ai. ivit Type:			Logged By
Client:		Thame	es Water	Utilities Ltd	Dando	o 2000	Dates:	06/02/2025	JH+TL
	Water	Sam	ble and I	n Situ Testina	Depth	Level			
Well	Strikes	Depth (m)	Type	Results	(m)	(m)	Legend	Stratum Description	
		Depth (m) 0.30 - 0.60 0.30 - 0.60 0.30 0.80 - 1.00 0.80 - 1.00 0.80 - 1.00 0.80 - 1.00 1.20 - 1.40 1.20 - 1.20 - 1.40 1.20 - 1.20 - 1.20 - 1.20 - 1.20 - 1.20 - 1.20	B B ES PID B ES PID B B SPT PID D B SPT PID D	PID=0.1ppm PID=0.1ppm N=22 (2,4/5,5,6,6 PID=0.0ppm	(III) 0.70 1.15 5)	6.69		Grass overlying soft brown silty sandy C fine to coarse. Medium dense reddish grey slightly clay GRAVEL. Sands are fine to coarse. Gra medium angular to sub angular flints. KEMPTON PARK GRAVEL Dense yellowish grey fine to medium SA fine gravel of flint. KEMPTON PARK GRAVEL	Pey sandy vels are fine to AND. Occasional 2 -
- - - - - - - - - - - - - - - - - - -	• • • •	2.00	ΡIJ	PID-0.0ppm	2.30	5.54		Medium dense brown gravelly fine to co Gravels are fine subangular to subround KEMPTON PARK GRAVEL	arse SAND. led flint.
	· · · · · ·	3.00 - 3.45 3.00 - 3.45 3.00 3.00	B ES CPT PID	N=36 (2,2/6,9,10, PID=0.0ppm	11)	4.94		Dense brown very gravelly fine to coars Gravels are fine to coarse subangular to flint. KEMPTON PARK GRAVEL	e SAND. 9 subrounded 3 -
	Casing	3.50 4.00 - 4.45 4.00 - 4.45 Water :	EW B ES Strikes (mbgl	Chiselling (mbg	i) Romark	s			4 -
Diame	ter Dept	h (m) Depth Strik	Rose	to Depth from De	pth to Hand dug	- ground level to 1.	.2m. Cable Percu	ussion 1.2 to 7.5m. Rotary cored (Geobore-S) 7.5 to 60	.0m.
200) 6.) 7.	50 3.90 50	3.50					,	ACS
									AUD

		Unit 7,	Danw	orth Farm					Borehole No	0.
		Hurstp BN6 9	ierpoir Gl	nt		Bo	reh	ole Loa	MT-017	а
Geo-l	Environn	nentalwww.g	gesl.ne	t					Sheet 2 of 1	6
Projec	ct Name:	London	Water F	Recycling (LWR)	Project No.		Co-ords:	517363E - 171307N	Hole Type	
					Energy Rati	io (%):			Scale	
Locat	ion:	London			Driller's Initia	I: MY	Level:	7.84	1:20	
Client	:	Thames	s Water	Utilities Ltd	Rig T	ype:	Dates:	06/02/2025	Logged By	/
	Water	Samp	le and li	n Situ Testina	Denth				JITTE	
Well	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legend	Stratum Description		
	•	4.00 4.00	CPT PID	N=20 (3,3/5,4,5,6 PID=0.0ppm	6) 4.10	3.74		Dense brown very gravelly fine to coars Gravels are fine to coarse subangular to	e SAND. subrounded	-
	*							KEMPTON PARK GRAVEL	AV/EL Sanda	-
	*							are fine to coarse. Gravels are fine to co	avel. Sands barse angular to	-
	*							KEMPTON PARK GRAVEL	lint.	-
	*									-
E	*									-
	*									-
	*									-
	•	5.00 - 5.45 5.00 - 5.45	B ES							5 —
	*	5.00 5.00	CPT PID	N=12 (2,2/3,3,4,2 PID=0.0ppm	2)					-
	*									-
E	*									-
	*				5.50	2.34				
	*							are fine to coarse. Gravels are fine to m	AVEL. Sands edium angular to	-
	•							KEMPTON PARK GRAVEL		-
	* *									-
	*									-
Ţ	•	6.00 - 6.30 6.00 - 6.30	B ES							6 —
	*	6.00 6.00	CPT PID	N=14 (2,2/3,2,3,6 PID=0.0ppm	6)					-
	•				6.20	1 5 4				-
	*				0.30	1.54		Firm brown grey mottled sandy slightly g Sands are fine to coarse. Gravels are fir	gravelly CLAY. ne subangular	-
••••	•	6.50 - 6.70	В		6.50	1.34		flint.		
								Firm very thinly laminated brownish grey sandy CLAY. Sands are fine. Sand appe	y silty slightly ears in lenses.	-
							×— × ×	LONDON CLAY FORMATION		-
										-
							<u>x</u> <u>x</u>			-
		7.00 - 7.45 7.00 - 7.45	B ES				xx			7 —
							× × ×			-
							××			-
										-
			D		7.50	0.24			wany ailty	-
		1.30 - 9.00			1.50	0.34		sandy CLAY. Sand is fine. [Preliminary	London Clay	-
										-
								7.5 to 10.5m: gritty reer when cut with sharp knife. 7.5 to 10.5m: with frequent very thin lenses of dark grey No clear laminations.	or light grey sandy silt.	-
							×××	At 7.6m: bivalve shell fossil, 10mm diameter. At 7.8m: fissure. 80 degree dip. Smooth, undulating, slig	ghtly polished, very tight,	-
		8.00	D				$\begin{array}{ c c c c c c c c c c c c c c c c c c c$			8 -
			Type/FI	TCRSCRRQD						-
Diame	Casing eter Dept	Water St h (m) Depth Strike	rikes (mbgl) Rose to	Chiselling (mbg o Depth from De	gl) Remarks	S	2m Cablo Dar-	ission 1.7 to 7.5m. Rotary corod (Goobara C) 7.5 to CO	0m	
200 150	0 6. 0 7.	50 3.90 50	3.50		mand dug §	_{bi} ouriu ievei to 1.	Lanie Perci	ענטיאנע (Geodore-S) איז די גענטיאנע (Geodore-S) איז די גענטיאנע איז גענטיאנע (Geodore-S) איז די גענען איז גענע		
									AUD	
L			1	1					1	

Bion Landon Contractor: Control Number 201805 Control Number	oject	Name: Lo	ndon Water	Recycl	ling (LW	/R)		C	Client: Th	ames Water	Utilities	Ltd			Date: 06	/02/2025							
act No. : GE21085 Crew Name: MY-PJ Dating Equipment: Dando 2004-Corranchio 305 Bortholic Number M-0 17, - CP-PCC 7.48 AdD Loged By Setile Setile Read of the set of the	catic	n: London						C	Contracto	ır:					Co-ords:	E517362	.98 N171	307.17					
Berelow Number MT-017-0 Hole Type CP+FeC Level Total Applied to the second provide to the second provide the	oject	No. : GE2	1665					c	Crew Nar	ne: MY+PJ					Drilling E	Equipment	t: Dando 2	2000+Con	nacchio 30	5			
MT-017a CP+RC 7.84m AbD JH+TL 1.20 Sheel 3 of 16 all Water Depth (m) Total Social Rocci Sector Participation Statutum Description Statutum Description and participation Total Social Rocci Sector Participation Statutum Description Statutum Description Statutum Description Total Social Rocci Sector Participation Statutum Description Statutum Description Statutum Description Total Social Rocci Sector Participation Total Social Rocci Sector Participation Statutum Description Statutum Description Total Social Rocci Sector Participation Total Social Rocci Sector Participation Statutum Description Statutum Description Total Social Rocci Sector Participation Total Social Rocci Sector Participation Statutum Description Statutum Description Statutum Description Total Social Rocci Sector Participation Total Social Rocci Sector Participation Statutum Description Statutum Description Statutum Description Total Social Rocci Sector Participation Total Social Rocci Sector Participation Statutum Description Statutum Description Total Social Rocci Sector Partiter Total Social Rocci Sector Participation <th>В</th> <th>orehole Nu</th> <th>ımber</th> <th></th> <th>Hole</th> <th>Туре</th> <th></th> <th></th> <th></th> <th>Level</th> <th></th> <th></th> <th>Logged</th> <th>Ву</th> <th></th> <th>Scale</th> <th></th> <th>F</th> <th>age Numb</th> <th>er</th>	В	orehole Nu	ımber		Hole	Туре				Level			Logged	Ву		Scale		F	age Numb	er			
ell Water Uppth (1) Common Stratum Eggend (m) Stratum Stratum Description 8 6 0 0 100		MT-017	a j		CP+	RC			7 ایک	.84m AoD		.	JH+Tl	L		1:20		307.17 000+Comacchio 305 Page Number Sheet 3 of 16 ON ey very silty ry London Clay slightly polished, very tight, ng, slightly polished, very logging of core structure logging of core structure CLAY. subdivision C]. r, slightly polished, very 0 to 30mm. 40 degree dip. ry stiff, unweathered. of dark grey silt. ; slightly polished, very islightly polished, very direction to other fissure at ; slightly polished, very rr, slightly polished, very					
8.50 D 100	ell	Water	(m)		/FI 1	TCR	SCR	g RQD	Diamet Recove (SPT)	Deptn (m)	Lev (m) I	_egend		S	tratum [Descript	307.17 2000+Comacchio 305 Page Number Sheet 3 of 16 ion rey very silty ry London Clay slightly polished, very tight, ring, slightly polished, very logging of core structure (r CLAY. subdivision C]. r, slightly polished, very 10 to 30mm. 40 degree dip. ery stiff, unweathered. s of dark grey silt. r, slightly polished, very r, slightly polished, very et risction to other fissure at r, slightly polished, very ar, slightl					
10.50 D 100mm 10.50 -2.66 Very stiff fissured greyish brown silty CLAY.			8.50 8.60 - 9.0 9.00 - 10. 9.50	50	D .	100	0	0	- (24) 100mm					Stiff to v sandy C Formati LONDO At 8.4m: fissur clean, very stil 8.4 to 8.6m: fit ight, clean, ver 1 9.0 to 10.5m: i not possible.	ery stiff f CLAY. Sar on subdiv N CLAY e. 10 degree f, unweathe ssure. 80 de ry stiff, unw	issured bind is fine. vision C]. FORMATI e dip. Smooth red. gree dip. Sm eathered. ed during drill eyish brown.	iownish g [Prelimina ION h, undulating ooth, undulating ooth, undulating	grey very silty nary London Clay ng, slightly polished, very tight, lating, slightly polished, very led logging of core structure led logging of core structure lity CLAY. on subdivision C]. anar, slightly polished, very at 10 to 30mm. 40 degree dip. , very stiff, unweathered. hes of dark grey silt. anar, slightly polished, very					
11.30 - 11.70 C 100			10.50 10.50 - 12 11.00	2.00	D				-100mm	10.50	-2.6	66 X X X X X X X X X X X X X X X X X X		Very stil [Prelimi LONDO 10.5 to 10.8m Hight, clean, ve At 10.7m: foss 10.75 to 10.9m Smooth, plans	ff fissured nary Lon N CLAY fissure. 80 ry stiff, um stiff, om several pa r, slightly po	I greyish I don Clay I FORMAT degree dip. S eathered. n diameter. arallel fissure lished, very i ti fine gravel.	orown silty Formation ION - s, spaced at tight, clean, v	y CLAY. n subdivisi ar, slightly po 10 to 30mm. rery stiff, unw as of dark are	on C]. lished, very 40 degree dip eathered. v silt				
Image: Second			11.30 - 11	.70	C	100	100	100						11.7 to 11.8m; 11.7 to 11.8m; 11.1 to 11.3m; 11.1 to 11.3m; 11.1 to 11.3m; 11.1 to 11.3m; 11.1 to 11.3m; 11.7 to 11.8m; 11.7 to 11.22m; 11.7 to 11.75m; 11.7 to 11.75m	rerrinittef fissure. 70 o ry stiff, unw fissure. 70 ry stiff, unw fissure. 65 ry stiff, unw very thing unv very thing unv ting wedge-	degree dip. S eathered. degree dip. S eathered. Digree dip. S eathered. Dip degree dip. S eathered. aminated. degree dip. eathered. Dip shaped secti	Sueva patché Smooth, plane Smooth, plane - Smooth, plane - Smooth, plane - Smooth, plane on of core th	ar, slightly po ar, slightly po ar, slightly po ar, slightly po nar, slightly po at split away.	y sirt. iished, very ished, very other fissure a lished, very fissure at 11.7 easily.	t			
Ole Diameter Casing Diameter Chiselling Inclination and Orientation Orientation Depth Tage Depth Tage Diameter Depth Tage Depth Tage Diameter Diameter <thdiameter< th=""> Diameter Diameter</thdiameter<>			_																				
	ole Ba 50 50	Diameter se Diameter 200 150	Casing D Depth Base 6.50 7.50	Diameter Diamete 200 150	er Depth	т Тор	(Depth E	Chisel Base	ling Duration	Tool De	Inc epth Top [lination Depth Ba	and Orienta se Inclinatio	ation on Orientation	Depth Top 8.30 12.00	Depth Base 12.00 60.00	Drillir e Type	ng Flush Colour	Min (%) 100 80	N			

roject	Name: Lo	ndon Water I	Recyclin	g (LW	/R)		C	Client: Th	ames Wate	er Utilitie	es Ltd				Date: 06/	/02/2025				
ocatio	n: London						C	Contracto	r:						Co-ords:	E517362	.98 N1713	307.17		-
roject	No. : GE2	1665					c	Crew Nan	ne: MY+PJ	J					Drilling E	quipment	: Dando 2	1307.17 2000+Comacchio 305 Page Number Sheet 4 of 11 Dition Ity CLAY: on subdivision C]. ary silty slightly ss silty clay below formation nife. Indistinct very thin ches of dark grey slightly mar, slightly polished, very slightly polished, very tight, inating within soil mass. slightly polished, very tight, slightly polished, very tight, dulating, dull, very tight, clean, ing, slightly polished, very i slightly polished, very tight, lanar, slightly polished, very ing laminated without sand n.		
Bo	orehole Nu	ımber		Hole 1	Туре				Level			Lo	gged E	Зу		Scale		F	Page Numb	ber
	MT-017	a Donth	_	CP+	RC	orin	~	7 19 - 20 - 0	.84m AoD				JH+TL			1:20			Sheet 4 of	16
Nell	Water	(m)	/	FI T		SCR	y RQD	Diamet Recove (SPT	(m)	(r	n)	Leg	end		St	tratum [Descripti	ion		
		12.00 12.00 - 13.	50	D -				-100mm	40.00		20		- <u>x</u> - - <u>x</u> - - <u>x</u> - - <u>x</u> -	Very sti [Prelimi LONDC	ff fissured nary Lond N CLAY I	l greyish b don Clay f FORMATI	orown silty Formation ION	r CLAY. subdivisi	on C].	12
		12.50	I	D 1	100	100	87		12.20	-4	.30			Very sti sandy C 15.8m. subdivis LONDC 12.2 to 13.4m aminations. V sandy silt. 12.2 to 12.3m tight, clean, ve At 12.3m: fiss clean, very sti 4t 12.3m: fiss	ff fissured CLAY. Sar [Prelimina sion C]. ON CLAY I gritty feeling vith occasion fissure. 70 of ery stiff, unweather ure. 30 degre ff, unweather ure. 30 degre	I greyish b ad is fine. ary Londo FORMATI g when cut w al fine grave degree dip. S seathered. se dip. Smoo red. 30mm le e dip. Smoo	Drown very Becomes n Clay Fo ON The sharp knift I-sized patche The sharp shift moth, planar, shift ngth, termina	y silty slig silty clay rmation e. Indistinct es of dark gro ar, slightly po ghtly polishe string within so ghtly polishe	htly below very thin ey slightly lished, very d, very tight, oil mass. d, very tight,	
		13.00	1	D										clean, very sti At 12.8m: foss clean, very sti At 13.0m: fiss clean, very sti depth. At 13.2m: foss	ff, unweathei illised wood i ure. 5 degree ff, unweathei ure. 20 degre ff, unweathei sil worm burn	red. fragment, 10 e dip. Smooth red. ee dip. Smoo red. Dips in c ows, 1mm dia	x 8 x 2mm. S h, planar, sligi th, planar, sli pposite direc ameter.	Slightly pyritis htly polished ghtly polishe tion to other	sed. , very tight, d, very tight, fissure at san	13 1e
		13.50 13.50 - 13. 13.50 - 15.	80 (00					-100mm						<u> At 13.35m: pa</u>	rting of light ;	grey silt.	-			
		14.00	1	D										At 13.8m: fiss. clean, very sti At 13.9m: fiss. clean, very sti At 13.9m: fiss. clean, very sti 13.9 to 14.0m very stiff, unw At 14.0m: very At 14.0m: very	ure. 40 degre ff, unweather ure. 90 degre ff, unweather ure. 80 degre ff, unweather : fissure. 70 d eathered. / thin lense o ure. 45 degre	ee dip. Smoo red. ee dip. Smoo red. ee dip. Smoo red. degree dip. S of dark grey s	th, planar, sli th, planar, sli th, planar, sli th, planar, sli mooth, undu	ghtly polishe ghtly polishe ghtly polishe lating, dull, v	d, very tight, d, very tight, d, very tight, rery tight, clea.	14 ^{n,}
				1	100	100	100							At 14.1m: nbs tight, clean, ve At 14.1m: foss clean, very stil 14.15 to 14.2m; tight, clean, ve At 14.3m: part 14.3 to 14.35; clean, very stil 14.45 to 14.55; tight, clean, ve 14.7 to 14.5m; 14.7 to 14.5m; 14.7 to 15.0n; tight, clean, ve 14.1 clean, ve 14.7 to 15.0n; tight, clean, ve 14.1 ta 5m; fos to 14.5m; fos	ure. 45 degre ray stiff, unwest sure. 70 degr ff, unweather ff, unweather ing of dark g in fissure. 70 ff, unweather fm; fissure. 70 ff, unweather fm; fissure. 70 ff, unweather fm; fissure. 50 ary stiff, unwe n; fissure. 50 ary stiff, unwe tiff, unwe ff, sure. 85 ary stiff, unwe ff, fissure. 10 ff, ary fiff, ary fi ff,	athered. ow, 1mm dial ree dip. Smo red. degree dip. sathered. rey silt. d degree dip. red. 0 degree dip. sathered. 0 degree dip. sathered. obsely fissure degree dip. sathered. sathered.	rn, undulating meter. oth, planar, s Smooth, plan Smooth, un, Smooth, plar s in same dir ad. Smooth, plar	g, signty pol lightly polish nar, slightly p slightly polisi anar, slightly p rection as fis nar, slightly p	ished, very tight, olished, very hed, very tight polished, very olished, very sure at 14.45r olished, very	; , n.
		15.00 15.00 - 16.	50	D -				- (36) 100mm						At 14.9m: foss 15.0 to 15.8m content. Very At 15.5m: foss	sil wood fragr gradual cha thinly lamina	ment. 20 x 5. ange, becomi ted silty clay	x 50 mm. Ing very thinly from 15.8m.	/ laminated w	vithout sand	15
		15.50		D									X X X X X	At 15.55m; fiss clean, very sti At 15.66m; fiss clean, very sti 15.65 to 15.75 diameter.	ff, unweather ure. 90 degre ff, unweather ff, unweather m: moderate	ree dip. Smo red. ee dip. Smoo red. ely strong ligh	notor, planar, s th, planar, sli nt grey CLAY.	000+Comacchio 305 Page Number Sheet 4 of 16 ion CLAY: subdivision C]. / silty slightly silty clay below rmation e. Indistinct very thin so dark grey slightly wr, slightly polished, very tight, sing with soil mass. ghtly polished, very tight, ship polished, very tight, ship polished, very tight, ghtly polished, very tight, stightly polished, very tight, sightly polished, very tight, ar, slightly polished, very tight, war, slightly polished, very tight, war, slightly polished, very tight, storke, very tight, storke, very tight, storke, very tight, storke, very tight, war, slightly polished, very tight, variantated without sand		
Hole pth Ba	Diameter se Diameter	Casing Di	ameter Diameter	Depth	Тор	(Depth I	Chisel _{Base}	ling Duration	Tool	In Depth Top	Depth	on and (Base Ir	Orienta	tion Orientation	Depth Top	Depth Base	Drillin Type	g Flush Colour	Min (%)	Max (
6.50 7.50 60.00	200 150 146	6.50 7.50	200 150	Jopan											8.30 12.00	12.00 60.00	.,,,,,,	50.001	100 80	100

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oject	Name: Lo	ndon Water R	ecycling	g (LWF	R)		С	lient: Th	ames Water l	Jtilities	Ltd			Date: 06	/02/2025				
catic	n: London						С	Contracto	r:					Co-ords:	E517362	.98 N1713	307.17		
ject	No. : GE2	1665					С	rew Nan	ne: MY+PJ					Drilling E	quipment	: Dando 2	000+Com	acchio 308	5
В	orehole Nu	ımber	ŀ	Hole T	уре			_	Level			Logged	Ву		Scale		P	age Numb	er
	MI-017	a Denth	Tv		07 07	ring) ery (.84m AoD			JH+1L	-		1:20		5	sheet 5 of 1	6
/ell	Water	(m)	/F			SCR	RQD	Diame Recovi (SPT	(m)	(m))	egend		S	tratum D	Descripti	on		
		16.00 16.10 - 16.4	0 C)	97	60	53				X X X X X		Very stil sandy C 15.8m. subdivis LONDO 15.75 to 16.1m 176.0 to 16.1m tight, clean, ve	f fissurec LAY. Sar Prelimina ion C]. <u>N CLAY</u> : extremely fissure. 90 ry stiff, unw	I greyish b and is fine. I ary Londor FORMATI closely fissur degree dip. S eathered.	orown very Becomes n Clay For ON ed. mooth, plana	v silty sligt silty clay rmation ar, slightly pol	ntly below ^{iished} , very	
		16.50 16.50 - 18.0 17.00	0)	00 1	100	73	100mm					16.5 to 15.55n Tight, clean, ve 16.5 to 17.7m. tight, clean, ve fissure at sam At 16.55m.fiss clean, very stil At 16.8m: fisst clean, very stil fi6.8 to 17.0m. tight, clean, ve spaced 30mm At 17.1m: 5mr	1: fissure. 90 ry stiff, unw fissure. 90 ry stiff, unw e depth. sure. 0 degr f, unweathe fissure. 90 ry stiff, unw apart. thick layer	degree dip eathered. degree dip. S eathered. Orid ee dip. Smooi red. degree dip. Smooi red. degree dip. Smooi red. 0 degree dip. a eathered. 0 degree dip. eathered. Par of lignite.	Smooth, plana mooth, plana entated perpo th, planar, slig mooth, plana Smooth, plana Smooth, plana	nar, slightly po ar, slightly pol andicularly to ghtly polished ghtly polished ar, slightly pol aar, slightly po ar, slightly po ar vertical fis	olished, very ished, very other vertical d, very tight, d, very tight, ïshed, very olished, very sure at 16.8m,	
		17.50	D)							X X X X X X		At 17.55m: fis: Tight, clean, ve 17.55 to 17.6n Tight, clean, ve 17.6 to 17.7m: tight, clean, ve	sure. 20 deg ry stiff, unw 1: fissure. 60 ry stiff, unw ry stiff, unw	rree dip. Smoo eathered.) degree dip eathered. degree dip. S eathered.	oth, undulatir Smooth, plana	ng, slightly po nar, slightly po nr, slightly pol	lished, very olished, very ished, very	
		18.00 18.00 - 19.5	0) —				100mm			X X X X		At 17.7m: fisst tight, clean, ve At 17.75m: me 17.8 to 17.9m: tight, clean, ve 18.0 to 18.2m: tight, clean, ve At 18.2m: fisst clean, very stil	ire. 50 degri ry stiff, unw dium sand- fissure. 50 ry stiff, unw fissure. 85 ry stiff, unw ire. 20 degri f, unweathe	ee dip. Smool eathered. sized fossil sh degree dip. S eathered. degree dip. S eathered. ee dip. Smool red.	th, undulating nell fragment, mooth, plana mooth, plana th, planar, slig	g, slightly poli and fossil w rr, slightly pol rr, slightly pol ghtly polished	ished, very orm burrows. lished, very lished, very d, very tight,	
		18.50	D)							X X X		At 18.3m: very At 18.5m: fissu clean, very stil	thin lense o ire. 0 degree f, unweathe	of dark grey si e dip. Smooth red.	ilt. n, planar, sligi	htly polished,	very tight,	
		19.00	D)	00	100	83						E 10.7m inset lean, very stit At 18.7m fisst light, clean, ver 18.75 to 18.8m Smooth, plana 18.95 to 19.0m Hight, clean, ver At 19.05m thii At 19.1m: fisst clean, very stit 19.2 to 19.5m:	re. 30 degn fr. unweathe tre. 30 degn ry stiff, unw tree para ry stiff, unw tre store as ry stiff, unw tre. 20 degn f, unweathe extremely of	ee dip. Sintool eed. Terminat ee dip. Smool eathered. allel fissures s lished, very ti 5 degree dip. very ti 5 degree dip. of dark grey . ee dip. Smool red.	in, pianar, sin es against ot th, undulating paced at 10 i gipht, clean, vi Smooth, plan, slightly sandy th, planar, slig d.	gnty poished her fissure. g, slightly poli ery stiff, unwu har, slightly po y silt. Sand is ghtly polished	, very tight, ished, very legree dip. sathered. olished, very fine. d, very tight,	
											×	 							
		19.50 19.50 - 21.0	₀⊣₽	-				(46) 100mm			Ê	<u>×</u> -							_
Hole	Diameter	Casing Dia	meter	Der.". "	Tacile	C	Chisell	ing	Tecl	Incli	ination	and Orienta	ation	Dec th T	Der# 2	Drillin	g Flush	M= (01)	
th Ba 3.50 7.50	se Diameter 200 150	Depth Base D 6.50 7.50	200 150	Depth	Top D	epth B	lase	Duration	Tool Dep	th Top D	epth Bas	se Inclinatio	on Orientation	Depth Top 8.30 12.00	Depth Base 12.00 60.00	Туре	Colour	Min (%) 100 80	- 1

Hand dug ground level to 1.2m. Cable Percussion 1.2 to 7.5m. Rotary cored (Geobore-S) 7.5 to 60.0m.



Cation Contractor: Co-ordin: Est 7282.98 N1/1307.17 Derrich Num? Hole Type Dreve Name: MY-PJ Dating Equipment: Data 2006-Contractibility 507.17 Cell Water Derrich Name: MY-PJ Dating Equipment: Data 2006-Contractibility 507.17 Dating Equipment: Data 2006-Contractibility 507.17 Cell Water Derrich Statum Total Type Contraction Statum Statum Description Image: Statum Statum Statum Statum Statum 20.00 D Statum Statum Statum Statum 21.00 20.00 D Statum Statum Statum Statum 21.00 D Statum	oject	Name: Lo	ndon Water Re	ecycling	(LWR)		C	Client: Th	ames Water	r Utilities Ltd		Date: 06/02/2025	
Jest No.: GE21865 Crew Name: MY-PJ Drilling Equipment: Danda 2000-Comacobla 35 Bortholic Number CPC-RC ZMm Ado Logged By Scale Proge Number M1-017-a CPC-RC ZMm Ado Larged Logged By Scale Stratum Description Idl Water Depth Type Corrul Stratum Description Stratum Description Idl 20.00 D Stratum Description Stratum Description Stratum Description 21.00 20.00 D Stratum Description Stratum Description Stratum Description 21.00 D Stratum Description Stratum Description Stratum Description Stratum Description 21.00 D Stratum Description Stratum Description Stratum Description Stratum Description <th>catio</th> <th>n: London</th> <th></th> <th></th> <th></th> <th></th> <th>C</th> <th>Contracto</th> <th>or:</th> <th></th> <th></th> <th>Co-ords: E517362.98 N171307.17</th> <th></th>	catio	n: London					C	Contracto	or:			Co-ords: E517362.98 N171307.17	
Economic Number MT-0 YR-0 Hole Type CP-PFC Level MH-1 YR-0 Level MH-1 YR-0 Legent MH-1 YR-0 Scale Page Number Statuture ell Water Depth (m) Trail SCR (ROD §§ § E ME (YR-0) Depth (m) Level MH-1 YR-0 Level MH-1 YR-0 </th <th>oject</th> <th>No. : GE2</th> <th>1665</th> <th></th> <th></th> <th></th> <th>C</th> <th>Crew Nar</th> <th>ne: MY+PJ</th> <th></th> <th></th> <th>Drilling Equipment: Dando 2000+Comacchio 30</th> <th>5</th>	oject	No. : GE2	1665				C	Crew Nar	ne: MY+PJ			Drilling Equipment: Dando 2000+Comacchio 30	5
International constraints CP+RC CP+RC CP+RC Depth (m) JH+II 120 Sheet 6 of 16 68 Water Depth (m) Trop Social constraints Conting SS SS	B	orehole Nu	ımber	He	ole Type	Э			Level		Logged	By Scale Page Num	ber
Image: billing in the second provide status of the		MI-017	a Denth			orin		ery ter	7.84m AoD		JH+IL	1:20 Sheet 6 of	16
20.00 D 21.00 C 21.00 D 21.00 D 21.00 D 21.00 D 22.00	ell	Water	(m)	/FI	TCR	SCR	9 RQD	Diame Recov (SPT	(m)	(m)	Legend	Stratum Description	
21.00 21.00 <th< td=""><td></td><td></td><td colspan="5">20.00 D 20.30 - 20.65 C 21.00 21.00 - 22.50 D 21.50 D</td><td></td><td></td><td></td><td></td><td>Very stiff fissured greyish brown very silty slightly sandy CLAY. Sand is fine. Becomes silty clay below 15.8m. [Preliminary London Clay Formation subdivision C]. LONDON CLAY FORMATION At 20.65m: fissure. 70 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered.</td><td></td></th<>			20.00 D 20.30 - 20.65 C 21.00 21.00 - 22.50 D 21.50 D									Very stiff fissured greyish brown very silty slightly sandy CLAY. Sand is fine. Becomes silty clay below 15.8m. [Preliminary London Clay Formation subdivision C]. LONDON CLAY FORMATION At 20.65m: fissure. 70 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered.	
22.00 D 80 8			21.00 21.00 - 22.50 21.50	D				-100mm				Al 20.6m: very weak dark grey sing signt pyritised claystone hodule, 15mm thick. 80mm diameter. 21.0 to 21.1m: fissure. 85 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 21.3 to 21.4m: fissure. 90 degree dip. Smooth, undulating, dull, very tight, clea very stiff, unweathered.	n,
22.50 22.50 - 24.00 D D 100mm 22.50 -14.66			22.00	D	80	80	80		22.20	-14.36		21.6 to 21.7m: two parallel fissures. 90 degree dip. Smooth, planar, dull, very tight, clean, very stiff, unweathered. 21.75 to 21.95m: two parallel fissures. 90 degree dip. Smooth, undulating, dull very tight, clean, very stiff, unweathered. 21.9 to 22.1m: fissure. 85 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered.	,
22.50 22.50 24.00 D Image: transmitted field of the section of th												22.2 to 22.5m: no recovery, core washed out.	
22.90 D 100 100 47 23.00 - 23.40 C D 100 47 Weight of the state of the s			22.50 22.50 - 24.00	D				-100mm	22.50	-14.66		Very stiff very thinly laminated fissured greyish brown very silty CLAY. [Preliminary London Clay Formation subdivision B2]. LONDON CLAY FORMATION 22.5 to 23.0m: surface of core partially washed away. 22.6 to 23.7 m: fissure & 5 dearee dio. Smooth planar slinktly polished yeary.	
Hole Diameter Casing Diameter Chiselling Inclination and Orientation Depth Top Depth Base Diameter Depth Base Diameter Depth Top Depth Top Depth Base Duration Tool Depth Top Depth Top Depth Top Depth Top Olony Min (%) M 5.0 200 6.50 200 50 150 7.50 150 150 150 160 12.00 60.00 100 80			22.90 23.00 - 23.40	D C	100	100	47					ight, clean, very stiff, unweathered. 22.6 to 22.7m. fissure. 45 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. Dip direction is perpendicular to other fissure at 22.6m. 22.7 to 22.9m. very closely fissured. Fissures in multiple orientations. Core sp easily along fissures into angular chunks up to 100mm diameter. Fissures are smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 22.9 to 23.0m. fissure. 93 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 22.9 to 23.m. fissure. 94 degree dip. Smooth, planar, slightly polished, very tight clean, very stiff, unweathered.	lit nt,
Hole Diameter Casing Diameter Casing Diameter Chiselling Chiselling Inclination and Orientation Orientation Orientation Depth Tage Diameter Diameter Depth Base Tope Depth Base Tope Colour Min (%)													
6.50 200 6.50 200 8.30 12.00 100 7.50 150 7.50 150 12.00 80 80	Hole th Ba	Diameter se Diameter	Casing Dian	neter ameter D	epth Top	(Depth E	Chisel Base	ling Duration	Tool D	Inclinati epth Top Depth	on and Orienta Base Inclinatio	Drilling Flush n Orientation Depth Top Depth Base Type Colour Min (%)	N
	3.50 7.50 0.00	200 150 146	6.50 7.50	200 150				_				8.30 12.00 100 12.00 60.00 80	

ject	Name: Lo	ndon Water	Recyc	ling (L	WR)		C	Client: Th	ames Wate	r Utilities	Ltd		Date: 06/02/2025	
atio	n: London						C	Contracto	or:				Co-ords: E517362.98 N171307.17	
ect	No. : GE2	1665					C	Crew Nar	ne: MY+PJ				Drilling Equipment: Dando 2000+Comacchio 30	5
В	prehole Nu	umber		Hole	е Туре	•			Level			Logged	By Scale Page Numb	er
	MT-017	a Dooth	、 -	CF	P+RC	orin	~	7 e.c.	2.84m AoD		(a)	JH+TL	L 1:20 Sheet 7 of 7	16
ell	Water	(m)	'	/FI	TCR	SCR	9 RQD	Diame Recove (SPT	(m)	(m	n) 1	Legend	Stratum Description	
		23.50 24.00 24.00 - 25 24.50 25.00	5.50		73	27	20	- (47) 100mm	24.95 25.10	-17.	111 × 226		Very stiff very thinly laminated fissured greyish brown very silty CLAY. [Preliminary London Clay Formation subdivision B2]. LONDON CLAY FORMATION At 23.5m. fissure. 5 degree dip. Smooth, planar, slightly polished, very tight, blean, very stiff, unweathered. 23.5f 0.23.5m. fissure. 5 degree dip. Smooth, planar, slightly polished, very tight, blean, very stiff, unweathered. 23.5f 0.23.5m. fissure. 85 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 23.6 to 23.7m. fissure. 60 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. Dip direction is approximately 60 degrees blockwise to fissure at 23.5 fo 23.9m. 23.75 to 23.9m. extremely closely fissured. At 24.8m. fissure. 60 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 23.75 to 23.9m. extremely closely fissured. Very stiff very thinly laminated fissured brownish grey very sitty slightly sandy CLAY. Sand is fine. [Preliminary London Clay Formation subdivision B2]. LONDON CLAY FORMATION 25.06 to 25.9m. fissure. 85 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. NO RECOVERY. 25.1 to 25.5m. core lost.	
		25.50 25.50 - 27 26.00 26.50	2.00	D	100	100	0 27	-17.			Very stiff very thinly laminated fissured greyish brown silty to very silty CLAY. [Preliminary London Clay Formation subdivision B2]. LONDON CLAY FORMATION At 25.6m: fissure. 50 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. At 25.6m: coarse sand-sized shell. 25.8 to 25.9m: extremely closely fissured. 25.9 to 26.7m: surface of core partially washed away. At 26.0m: fissure. 40 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. At 26.0m: fissure 90 degree dip. Smooth, undulating, slightly polished, very tight, clean, very stiff, unweathered. At 26.15m: fossure 90 degree dip. Smooth, undulating, slightly polished, very tight, clean, very stiff, unweathered. At 26.5m: 10mm thick layers containing tight, clean, very stiff, unweathered. At 26.5m: 10mm thick layers containing tight, clean, very stiff, unweathered. At 26.6m: very thin lense of dark grey silt. At 26.6m: very thin lense of dark grey silt. At 26.6m: resure. 40 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. At 26.6m: very thin lense of dark grey silt.	гy		
		27.00 27.00 - 28	3.50	U				TUUMM			×		-	
le 3a	Diameter e Diameter	Casing Depth Base	Diameter Diamete	er Dep	oth Top	Depth I	Chisel Base	ling Duration	Tool D	Inc epth Top	lination Depth Ba	and Orienta	Drilling Flush on Orientation Depth Top Depth Base Type Colour Min (%)	1
ົ້	200 150	6.50 7.50	200 150		·r								8.30 12.00 100 100 100 100 100 100 100 100 100	
0	146													

oject	Name: Lo	ondon Water	Recyc	ling (L	WR)		С	lient: Th	ames Wat	er Utilitie	s Ltd	l			Date: 06	/02/2025				
catio	n: London	1					С	ontracto	r:						Co-ords:	E517362	.98 N1713	307.17		
ject	No. : GE2	21665					С	rew Nar	ne: MY+P、	J					Drilling E	quipment	: Dando 2	000+Con	nacchio 305	;
В	prehole Nu	umber		Hole	е Туре	•			Level			L	_ogged	Ву		Scale		F	age Numbe	ər
	MT-017	'a		CF	P+RC			7 تەك	.84m AoD	Τ.	L		JH+TL	-		1:20			Sheet 8 of 1	6
'ell	Water	Deptn (m)		/FI	TCR	SCR	g ROD	Diamete Recove (SPT)	Deptn (m)	Le (r	vei n)	Le	egend		S	tratum D	Descripti	ion		
		27.50		D	100	100	80				,			Very st silty to Format LONDC 27.2 to 27.3m tight, clean, v At 27.4m: fiss clean, very st At 27.5m: fiss clean, very st At 27.7m: fiss stiff, unweath At 27.9m: ver 28.0 to 28.2m very stiff, unw 28.25 to 28.3 tight, clean, v	iff very thin very sitly (ion subdiv DN CLAY 1: fissure. 75 ery stiff, unweather sure. 70 degra ered. tically alignee 1: fissure. 90 eeathered.	nly lamina CLAY. [Pre rision B2]. FORMATI degree dip. Sathered. a althered.	ted fissurd eliminary l mooth, stepp ih, planar, sli th, planar, sli th, planar, du fragment, 7n mooth, undu	ed greyisi London C bed, slightly p ghtly polishe ghtly polishe ghtly polishe ghtly polishe till, very tight, nm diameter, lating, dull, v	n brown lay colished, very d, very tight, d, very tight, clean, very 50mm length. rery tight, clean,	
		28.50 28.50 - 30	.00	D				-100mm						28.4 to 28.5rr Smooth, plan	i: several par ar, slightly po dium gravel-s	allel fissures lished, very ti lished patch of	, spacedat 5 to ight, clean, vi f dark grey si	o 25mm. 0 d ery stiff, unw ilty clay.	egree dip. veathered.	
		29.00		D								×	×							
		29.10 - 29	.40	С	100	67	67					× × × ×		At 29.1m: fiss clean, very st	sure. 25 degre iff, unweathe	ee dip. Smooi red.	th, planar, sli	ghtly polishe	d, very tight,	
		29.50		D										729.6 to 30.0m At 29.6 1m: ve At 29.65m: fis clean, very st At 29.9m: me	n: very silty. ary thin lense ssure. 45 deg iff, unweather dium gravel-3	of light greyis ree dip. Smor red. sized patch of	sh brown silt. oth, planar, s dark grey si	lightly polish ilty clay.	ied, very tight,	
		30.00 30.00 - 31 30.50	.50	D	97	97	93	100mm						At 30.2m: sev At 30.3m: fiss blean, very st At 30.3m. 2m 30.35 to 30.5 very stiff, unw At 30.55m: se At 30.8m: fiss At 30.9m: fiss	reral very thin sure. 45 degree m thick layer m: fissure. 90 eeathered. sweral very th sure. 0 degree ure. 0 degree	lenses of da e dip. Smoot of dark grey . degree dip. in lenses of d e dip. Smooth dip. Smooth dip. Smooth	rk grey silty o th, planar, sli Silty fine san Smooth, plar , lark grey silty , undulating, ,	clay. d. ar, dull, very fine sand. slightly polit.	d, very tight, / tight, clean, shed, very tight, shed, very tight,	
			F				1							piean, very st	iii, unweathei	еи.				-
ole	Diameter	Casing D	iameter	r er Der	ath Ton	(Denth I	Chisell	ing	Tool	I Depth Tor	clinati	ion an	d Orienta	ation	Depth Tor	Depth Poss	Drillin	g Flush	Min (%)	
Ба 50 50	200 150	6.50 7.50	200 150		ли юр	Deptn I	Jase	DurauON	1001	ренш тор	Depth	i Dase	monnatio		8.30 12.00	12.00 60.00	туре	Colour	100 80	

Hand dug ground level to 1.2m. Cable Percussion 1.2 to 7.5m. Rotary cored (Geobore-S) 7.5 to 60.0m.



ject	Name: Lo	ndon Water F	Recycling	(LWR)		C	Client: Th	ames Water	Utilities L	td		Date: 06/02/2025
atio	n: London					C	Contracto	or:				Co-ords: E517362.98 N171307.17
ect	No. : GE2	1665				C	Crew Nar	ne: MY+PJ				Drilling Equipment: Dando 2000+Comacchio 305
Bo		umber	H	ole Type	e		7	Level			Logged	By Scale Page Number
	MI-01/	a Donth			orin) ery	Dopth			JH+1L	1:20 Sheet 9 of 16
I	Water	(m)	/FI	TCR	SCR	RQD	Diame Recove (SPT	(m)	(m)	"	_egend	Stratum Description
		31.00 31.50 31.50 - 33.0 31.75 31.80 - 32.2 32.50)00 D 200 C	100	SCR	93	-100mm					Very stiff very thinly laminated fissured greyish brown silty to very silty CLAY. [Preliminary London Clay Formation subdivision B2]. LONDON CLAY FORMATION At 30.92m: fissure. 0 degree dip. Smooth, undulating, slightly polished, very tight, clean, very stiff, unweathered. At 31.05m: fissure. 30 degree dip. Smooth, undulating, slightly polished, very tight, clean, very stiff, unweathered. At 31.05m: fissure. 0 degree dip. Smooth, undulating, slightly polished, very tight, clean, very stiff, unweathered. At 31.05m: fissure. 0 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 31.65 0 31.7m: two subparallel fissures. 90 degree dip, 10mm spacing, Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 32.4 to 32.45m: fissure. 90 degree dip. Smooth, undulating, slightly polished, very tight, clean, very stiff, unweathered. 32.4 to 32.45m: fissure. 90 degree dip. Smooth, undulating, slightly polished, very tight, clean, very stiff, unweathered. 32.4 to 32.45m: fissure. 90 degree dip. Smooth, undulating, slightly polished, very tight, clean, very stiff, unweathered. 32.4 to 32.45m: fissure. 90 degree dip. Smooth, undulating, slightly polished, very tight, clean, very stiff, unweathered. 32.4 to 32.45m: fissure. 90 degree dip. Smooth, undulating, slightly polished, very tight, clean, very stiff, unweathered.
		33.00 33.00 - 34.5 33.50	50 D				-100mm					
		33.50 D 97 97 34.00 D		67						At 33.9m: cobble-sized nodule of dark grey silty claystone. Core is disturbed for approximately 30mm above and below. At 34.05m: fissure. 50 degree dip. Smooth, undulating, slightly polished, very tight, clean, very stiff, unweathered. At 34.4m: fissure. 50 degree dip. Smooth, undulating, slightly polished, very tight, clean, very stiff, unweathered. At 34.4m: fissure. 50 degree dip. Smooth, undulating, slightly polished, very tight, clean, very stiff, unweathered. At 34.3m: fossil bivalve shell, 15mm diameter. At 35.03*4.4m: two subparallel fissures. 80 degree dip. Smooth, planar, dull,		
e	Diameter	34.50 34.50 - 36.0	D D0			Chisel	-100mm		Inclin		X	Very tight, clean, very stiff, unweathered. TAT 34.5m: thin lense of dark grey slit. TAT 34.45m: thin lense of dark grey slit. TAT 34.45m 34.8m: fissure: 90 degree dip. Smooth, planar, dull, very tight, clean, very stiff, unweathered. 184.65 to 35.8m: intermittent very thin lenses and fine gravel-sized patches of dark grey silty sandy clay. Sand is fine. This provides the statement of th
ja:	e Diamete	r Depth Base I	Diameter E	Depth Top	Depth	Base	Duration	Tool De	oth Top De	pth Ba	se Inclinatio	n Orientation Depth Top Depth Base Type Colour Min (%) N
,) 0	150 146	7.50	150									

Geo	Environ	mental						R	ota	ry	C C	ore	Log				
Project	Name: Lo	ondon Water Red	cycling (L	WR)		C	Client: Th	names Water	Utilities Lt	td			Date: 06/02/202	5			
Locatio	n: Londor	1				C	Contracto	or:					Co-ords: E5173	62.98 N171	307.17		
Project	No. : GE2	21665				c	Crew Na	me: MY+PJ					Drilling Equipme	ent: Dando 2	000+Com	nacchio 30	5
Bo	orehole N	umber	Hol	е Туре	Э		_	Level			Logged	Ву	Scal	e	F	Page Numb	ber
	MT-017	a Danth	Cl	P+RC) or in		i Ser	7.84m AoD			JH+TI	L.	1:20)	S	heet 10 of	16
Well	Water	(m)	/FI	TCR	SCR	ROD	Diamet Recove (SPT)	(m)	(m)	' L	egend		Stratum	n Descript	ion		
		35.00 35.50	D	100	100	100				<u> </u>		Very st silty to Forma LONDO	itff very thinly lam very silty CLAY. [tion subdivision B ON CLAY FORMA	nated fissur Preliminary 2]. ATION	ed greyisl	n brown lay	35 -
		36.00	D				-100mm					At 35.6m: fiss clean, very st 35.8 to 36.0m	sure. 55 degree dip. Sri tiff, unweathered. n: surface of core partia	nooth, planar, sli 	ghtly polishe	d, very tight,	
		36.00 - 36.30 36.00 - 37.50 36.50	C									36.4 to 36.7n striated, very	n: fissure. 80 degree di tight, clean, very stiff, t	o. Smooth, plana <u>inw</u> eathered.	ar, polished a	nd slightly	
		37.00	D	93	93	93						36.65 to 36.9 tight, clean, v At 36.8m: biv	om: fissure. 70 degree o very stiff, unweathered. valve shell fossil, and a n: very closely fissured.	iip. Smooth, plai 5mm thick lense 	nar, slightly p of dark grey	olished, very • silty.	37 —
		37.40 37.50 - 39.00	D				-100mm			<u>A, 1, 4, 1, 4, 1, 4, 1, 4</u>		37.3 to 37.4n tight, clean, v 37.4 to 37.5n	n: fissure. 90 degree di, /ery stiff, unweathered. n: poor recovery.	o. Smooth, plana	ar, slightly po	lished, very	
		38.00 38.50	D	93	53	53						38.0 to 38.05 38.05 to 38.1 41 38.1m: thii 38.1 to 38.3m blean, very si 38.2 to 38.3m blean, very si 38.2 to 38.3m blean, very si 38.2 to 38.3m clean, very si	5m: extremely closely fi im: extremely weak light in lamination of dark gre n: fissure. 85 degree di tiff, unweathered. n: fissure. 75 degree di tiff, unweathered. n: fissure. 70 degree di tiff, unweathered.	<u>issur</u> ed. t <u>gr</u> eyish brown y silit. 5. Smooth, plana 5. Smooth, plana <u>sure</u> d. 5. Smooth, plana ——	silty clay. ar, polished, v ar, polished, v	very tight, very tight, very tight,	38 -
Hole	Diameter	Casing Diame	eter		L	 Chisel	ling		Inclina	ation a	nd Orient	ation		Drillin	g Flush		
Depth Ba 6.50 7.50 60.00	se Diamete 200 150 146	r Depth Base Diar 6.50 2 7.50 1	neter De 00 50	pth Top	Depth	Base	Duration	Tool De	pth Top Dep	oth Base	e Inclinatio	on Orientation	1 Depth Top Depth B 8.30 12.00 12.00 60.00	ase Type	Colour	Min (%) 100 80	Max (%) 100 80

Hand dug ground level to 1.2m. Cable Percussion 1.2 to 7.5m. Rotary cored (Geobore-S) 7.5 to 60.0m.



ect	Name: Lo	ndon Water	Recycli	ing (L\	WR)		C	Client: Th	ames Water	r Utilities Lt	d			Date: 06	/02/2025				
io	n: London						C	Contracto	r:					Co-ords:	E517362	.98 N171	307.17		
ct	No. : GE2	1665					C	Crew Nar	ne: MY+PJ					Drilling E	Equipment	: Dando 2	2000+Con	nacchio 30	5
30	orehole Nu	umber		Hole	е Туре	•			Level			Logged I	Ву		Scale		F	Page Numb	ber
	MT-017	a Damath	-	CP	+RC		~	7 تەكت	.84m AoD			JH+TL			1:20		5	sheet 11 of	16
I	Water	(m)		ype /FI	TCR	SCR	g ROD	Diamet Recove (SPT)	(m)	(m)		egend		S	tratum [Descript	tion		
		(m) 39.00 39.00 - 40 39.15 - 39 39.60 40.00 40.00 40.50 40.50 - 42	.50 .55		97	97	80	-100mm	(m) 40.70	-32.86			Very stit silty to v Formati LONDC At 38.5m: fiss clean, very stit 38.8 to 38.95m Very stif, unwu At 38.85m: fis- clean, very stit clean, very stit dean, very stit at 39.95m: fis- clean, very stit do 25 to 40.5m tight, clean, very stit do 25 to 40.5m tight, clean, very stit fissured London LONDC 40.7 to 41.1m	ff very thi very silty on subdiv N CLAY ure. 15 degr ff, unweather ff, unweather ff, unweather ff, unweather ff, unweather ff, unweather ff, unweather ff, unweather ff, unweather sure. 25 deg ff, unweather sure. 25 deg ff, unweather n: fissure. 90 rys stiff, unw ff to extre I greyish I greyish Clay For N CLAY fr sure. 90 ry stiff, unw	nly lamina CLAY. [Pr vision B2] FORMATI 5 degree dip. Smo red. 5 degree dip. Smo red.	ted fissur eliminary ON ih, planar, sli oth, planar, sl oth, planar, s oth, planar, s	red greyis London C ightly polishe nar, dull, very slightly polish slightly polish slightly polish slightly polish nar, slightly polish	h brown ilay d, very tight, v tight, clean, ed, very tight, ed, very tight, ed, very tight, ed, very tight, iolished, very wwn silty wee dip. Smoot ted y	
		41.50		D	100	100	21				<u> </u>		40.7 to 41.5m. 40.9 to 41.1m subvertical fiss 41.1 to 41.2m. At 41.3m: fissi clean, very sti At 41.35m: rou At 41.6m: fissi clean, very sti 41.7 to 42.0m. tight, clean, very	: surface of 6 : core split e sures. : extremely co ure. 10 degre ff, unweathe unded mediu ure. 35 degre ff, unweathe : fissure. 90 ary stiff, unw	core partially asily into sev closely fissure ee dip. Smoc red. im gravel-siz ee dip. Smoc red. degree dip. S eathered.	washed awa eral fragmen gd, core appe th, planar, sli ed pyritised f th, planar, sli th, planar, sli	y, Very silty, its along seve ears softenec ightly polishe fossil wood fr ightly polishe ar, slightly po	eral intersecti I and friable. d, very tight, agment. d, very tight, lished, very	
		42.00 42.00 - 43	.50	D				-100mm			× 1 × 1 × 1 ×		42.0 to 42.15n Smooth, plana	n: several pa ar, slightly po	arallel fissure blished, very i	s spaced at a tight, clean, v	10 to 30mm. /ery stiff, unw	0 degree dip. eathered.	
											F								-
e	Diameter	Casing D	iameter			(Chisel	ling		Inclina	ation a	nd Orienta	ition		1	Drillin	ng Flush		
ia)	se Diamete 200	r Depth Base 6.50	Diameter 200	r Dep	oth Top	Depth E	Base	Duration	Tool D	epth Top Dep	th Base	e Inclinatio	n Orientation	Depth Top 8.30	Depth Base 12.00	е Туре	Colour	Min (%) 100	⊢
1	150 146	7.50	150											12.00	60.00			80	

AGS



Rotary Core Log

Geo	-Environ	imental											1						
Project	Name: Lo	ondon Water R	ecycling	LWR)		C	Client: Th	ames Wat	ter Utilities	Ltd			Date: 06	/02/2025					
Locatio	n: London	1				C	Contracto	r:					Co-ords	: E517362	.98 N1	71307.1	17		
Project	No. : GE2	21665				C	Crew Nan	ne: MY+P	J				Drilling E	Equipment	: Dando	o 2000+	+Coma	cchio 305	
B	orehole Nu	umber	Ho	ole Type	Э			Level			Logged	Ву		Scale			Pa	ge Numbe	er
	MT-017	′a		P+RC			7 = >	.84m AoD)		JH+TL T	- I		1:20			She	eet 12 of ?	16
Well	Water	Depth (m)	Type /FI	TCR	SCR	g RQD	Diamete Recover (SPT)	Depth (m)	n Leve (m)	el)	Legend		S	tratum [Descri	ption			
	vvater	(m) 42.50 43.00 43.50 43.50 - 45.0 44.00 44.40		TCR 100	SCR 100	RQD 73 47	- <u>un 235</u>	(m)	(m))	Legend X	Very sti fissurec London LONDC 41.42.3m: fiss 21.3to 42.7m 41.42.3m: fiss 21.42.3m: fiss 21.42.3to 42.7m 41.42.35m: fis 21.45 to 42.7m 42.45 to 42.7m 42.45 to 43.4t 43.25 to 43.4t 43.7to 1.42.8m yight, clean, ve 44.3.6m: pari At 43.7m: ver At 43.8m: pyrn At 43.8m: pyrn At 43.95m: 10 44.0 to 44.2sr 44.1 to 44.3m tight, clean, ve 44.0 to 44.4t 44.0 to 44.4t 44.0 to 44.4t 44.5 to 44.6t dright, clean, ve 44.0 m. 44.5 t	The sector of th	In alum L In alu	Vessen k very t y CLAY, bdivisic ON th, planar, o 80mm: o direction yed down- red. Smooth, pro- red. Smooth, pro- red. Smooth, pro- red. Smooth, re split ea same dep o approxing real. Smooth, pro- resplit ea same dep o approxing resplit ea same. Sand. Sand. Sill.	ption hinly la [Prelin on B1]. ; slightly p ar, slightly p ar, slightly is approx- core]. lanar, slig. planar, slightly is approx- core]. lanar, slightly planar, slightly th. mately 90 shed away liameter. ty clay. planar, slightly siste direct	minate ninary polished, 1 artially wa polished, htly polished, htly polish cimately 6 htly polish slightly polish this fissu ightly polish this fissu mm, with y during of chunks. ghtly polish tion to fiss	d very tight, ashed away. very tight, hed, very tight, hed, very ight, bed, very re. lished, very re. Dip lished, very irre. lished, very irre. shed, very shed, very werk shed, very irre. shed, very irre. sure at irre. sure at irre. sure. sure at irre. sure at irre. sure at irre. i	43
Hole Depth Ba 6.50 60.00 Rema	Diameter se Diamete 2000 150 146	45.00 45.00 - 46.5 45.20 - 45.5 45.60 45.60 46.00 <u>Casing Dia</u> r Depth Base D 6.65 7.50	D D D D D D D D 150	100	100	93 Chisel Base	-100mm ling Duration	45.10	-37.2	26	x x x <td>All 44.65 to 44.77 Clean, very sti 44.65 to 44.77 Clean, very sti 44.75 to 45.17 tight, clean, very Very sti fissurec London LONDC 45.7 to 45.87 Tight, clean, very 45.75 to 46.07 tight, clean, very 45.75 to 45.87 Tight, clean, very 45.75 to 45.87 Tight, clean, very 45.75 to 45.87 Tight, clean, very 45.77 to 45.87 tight, clean, very ation n Orientation</td> <td>m: fissure. 9 ff. unweather m: very silty. : fissure. 80 ery stiff, unw ff to extred greyish Clay For ON CLAY : very silty ing of light s : fissure. 60 ery stiff, unw m: fissure. 60 ery stiff, unw issure at 45. Depth Top 8.30 12.00</td> <td>0 degree dip. S red. degree dip. S eathered. mely wea brown silty mation su FORMATI slightly sandy grey silt. 0 degree dip. S 0 degr</td> <td>Smooth, p</td> <td>lanar, slig hinily la . [Prelin on A3]. fine. Sligh lanar, slig planar, slig planar, slig planar, slig planar, slig isite direct ating, sligf is approx</td> <td>htly polish minate- ninary htly polish ghtly polish ghtly polish tion to fiss htly polish cimately 9 sh olour</td> <td>ery tight, hed, very d eling when hed, very sure at ied, very iol degrees Min (%) 100 80</td> <td>45</td>	All 44.65 to 44.77 Clean, very sti 44.65 to 44.77 Clean, very sti 44.75 to 45.17 tight, clean, very Very sti fissurec London LONDC 45.7 to 45.87 Tight, clean, very 45.75 to 46.07 tight, clean, very 45.75 to 45.87 Tight, clean, very 45.75 to 45.87 Tight, clean, very 45.75 to 45.87 Tight, clean, very 45.77 to 45.87 tight, clean, very ation n Orientation	m: fissure. 9 ff. unweather m: very silty. : fissure. 80 ery stiff, unw ff to extred greyish Clay For ON CLAY : very silty ing of light s : fissure. 60 ery stiff, unw m: fissure. 60 ery stiff, unw issure at 45. Depth Top 8.30 12.00	0 degree dip. S red. degree dip. S eathered. mely wea brown silty mation su FORMATI slightly sandy grey silt. 0 degree dip. S 0 degr	Smooth, p	lanar, slig hinily la . [Prelin on A3]. fine. Sligh lanar, slig planar, slig planar, slig planar, slig planar, slig isite direct ating, sligf is approx	htly polish minate- ninary htly polish ghtly polish ghtly polish tion to fiss htly polish cimately 9 sh olour	ery tight, hed, very d eling when hed, very sure at ied, very iol degrees Min (%) 100 80	45
Hand d	ug ground	I level to 1.2m.	Cable P	ercussi	on 1.2	to 7.8	5m. Rota	ry cored (Geobore-S)7.	5 to 60.0m.							AG	S

roject	Name: Lo	ndon Water F	Recycling	g (LWR)		C	Client: Th	ames Water	Utilities	Ltd		Date: 06/02/2025
catio	n: London					(Contracto	r:				Co-ords: E517362.98 N171307.17
oject	No. : GE2	1665				C	Crew Nar	ne: MY+PJ				Drilling Equipment: Dando 2000+Comacchio 305
В	prehole Nu	ımber	ł	Hole Typ	е			Level			Logged	By Scale Page Number
	MT-017	a		CP+RC			7	.84m AoD		.	JH+TL	L 1:20 Sheet 13 of 10
/ell	Water	Depth (m)	Tyj /F		Corin		iamete tecover (SPT)	Depth (m)	Leve (m)	el)	_egend	Stratum Description
		46.50 46.50 - 48.0 47.50)0 C	86	80	24	-100mm					Very stiff to extremely weak very thinly laminated fissured greyish brown silty CLAY. [Preliminary London Clay Formation subdivision A3]. LONDON CLAY FORMATION 46.35 to 46.5m: fissure. 60 degree dip. Smooth, planar, dull, very tight, clean, very stiff, unweathered. 46.35 to 46.5m: several medium gravel-sized patches of dark grey very silty blay. 46.5 to 46.5m: several medium gravel-sized patches of dark grey very silty blay. 46.5 to 46.5m: core slipped out of the barrel during recovery of the tool. Recovered on re-run. Core disturbed. 46.7 to 47.4m: orientation and integrity of core disturbed during re-run.
		47.90 48.00 - 49.5 48.50	50	0 80	60	0	-100mm					47.9 to 48.0m: strong light grey claystone. Whole core diameter. 48.0 to 49.5m: core slipped out of the barrel during recovery of the tool. Recovered on re-run. Core disturbed. 48.0 to 49.5m: recovered as reworked and destructured silty clay.
		49.20 49.50 - 49.5 49.50 - 51.0	00 C				-100mm					49.3 to 49.5m: core lost during re-run.
Hole oth Ba 6.50 7.50 60.00	Diameter se Diameter 200 150 146	Casing Dia Depth Base C 6.50 7.50	imeter Diameter 200 150	Depth Top	Depth	Chise Base	lling Duration	Tool De	Incli pth Top D	ination epth Ba	and Orienta	Itation Drilling Flush on Orientation Depth Top Depth Base Type Colour Min (%) 12.00 12.00 80 80 100 100

Geo	-Environ	mental							F	Rot	ar	y C	ore	Log	J				
Project	Name: Lo	ondon Water	Recycl	ing (L	WR)		(Client: Th	ames Wat	ter Utilitie	es Ltd			Date: 06/0	02/2025				
Locatio	n: Londor	1						Contracto	or:					Co-ords:	E517362	.98 N171	307.17		
Project	No. : GE2	21665						Crew Nar	me: MY+P	J				Drilling Ed	quipment	: Dando 2	2000+Com	nacchio 30	5
Bo	orehole N	umber		Hole	е Туре	;			Level			Logged	Ву		Scale		F	age Numb	er
	MT-017	7a		CP	+RC			7	7.84m AoD)	<u> </u>	JH+T	ïL 		1:20		S	heet 14 of	16
Well	Water	Deptr (m)	ן ו	ype /FI	TCR	SCR	RQE	Diamete Recover (SPT)	Depth (m)	1 Le	evel m)	Legend		St	ratum D	Descript	ion		
		50.00		D	93	93	93						Very sti fissured Undon 49.9 to 50.0m 300 mm. 50.2 to 50.35r tight, clean, ve	ff to extrem d greyish b Clay Form DN CLAY F Fissure. 90 d reathered. intermittent p r: fissure. 70 ery stiff, unweit	nely weal prown silty CORMATI legree dip. S partings of do degree dip. athered.	k very thin / CLAY. [F bdivision ON mooth, plan ark grey silt. Smooth, plan	nly lamina Preliminan A3]. ar, dull, very t Spacing is b nar, slightly p	ted y ight, clean, etween 50 and olished, very	50
		50.50		D				–100mm					50.7 to 50.9m tight, clean, ve 50.8 to 50.9m tight, clean, ve 50.9 to 50.1m	: fissure. 80 d ery stiff, unwer : fissure. 90 d ery stiff, unwer : no recovery	legree dip. S athered. legree dip. S athered. Dip (washed aw	mooth, plan mooth, plan direction is ay).	ar, slightly po ar, slightly po perpendicula	lished, very lished, very r to fissure at	
		51.00 - 52 51.50	2.50	D									51.1 to 51.2m tight, clean, ve 51.2 to 51.4m 51.2 to 51.4m 4.51.5m: fiss stiff, unweather	: fissure. 45 d ery stiff, unwer : moderately s : moderately s ure. 90 degree ered.	legree dip. S athered. strong grey o e dip. Smool	mooth, plan laystone. W th, planar, du	ar, slightly po 'hole core dia ull, very tight,	lished, very meter. clean, very	
		52.00		D	97	97	93							5m: very close to 50mm dian :: surface of co	ely fissured. (neter. Dre partially (Core split ea	ısily along fis: y.	sures into	52 -
		52.50 52.50 - 54	4.00	D				–100mm					- 52.3 to 57m: <i>ii</i> <u>At 52.35m: pa</u> 	ntermittent pa irting of dark g	rtings of dar grey silt.	k grey silt. S	paced at 100	to 300mm.	
		53.00		D	77	77	77						53.2 to 53.3m	: very silty.					53
		53.50		D					53.65	-4:	5.81		53.65 to 54.07	COVERY. n: core washe	ed away duri	ng drilling.			
Hole Depth Bas 6.50 7.50 60.00	Diameter se Diamete 200 150 146	Casing Depth Base 6.50 7.50	Diameter Diamete 200 150	r Dep	oth Top	Depth	Chise Base	lling Duration	Tool	lı Depth Top	nclinatio Depth	on and Orient Base Inclinatio	tation on Orientation	Depth Top 8.30 12.00	Depth Base 12.00 60.00	Drillin Type	ng Flush Colour	Min (%) 100 80	Max (%) 100 80
Rema Hand d	urks ug ground	l level to 1.2	m. Cab	le Per	cussio	on 1.2	to 7.	5m. Rota	ary cored (Geobore	-S) 7.	5 to 60.0m.				1		AG	S

Geo	-Environ	imental							Jul	у U		
Project	Name: Lo	ondon Water Red	cycling (L	_WR)		C	Client: Th	ames Water	Utilities Ltd		Date: 06/02/2025	
Locatio	n: London	1				C	Contracto	ir:			Co-ords: E517362.98 N171307.17	
Project	No. : GE2	21665 umber	Hol		<u> </u>	C	Crew Nar	ne: MY+PJ		henno l	Drilling Equipment: Dando 2000+Comacchio 305	r
	MT-017	aniber /a	CI	P+RC			7	7.84m AoD		JH+T	L 1:20 Sheet 15 of 1	6
Well	Water	Depth	Туре	C	orin	g	meter covery SPT)	Depth	Level	Legend	Stratum Description	
		(m)		TCR	SCR	RQD	Dia Re (((m)	(m)		NO RECOVERY.	
		54.00 54.00 - 55.50 54.50 55.00	D	100	100	40	-100mm	54.00	-46.16		Very stiff to extremely weak very thinly laminated fissured greyish brown silty CLAY with intermittent partings abd thin laminations of dark or light grey silt and fine sand. [Preliminary London Clay Formation subdivision A3]. LONDON CLAY FORMATION 54.6 to 55.5m: fissure. 90 degree dip. Smooth, undulating, dull, very tight, clean, very stiff, unweathered. 54.6 to 55.5m: very silty Slight gritty feeling when cut with sharp knife. Laminations indistinct.	55 -
		55.50 55.50 - 55.90 55.50 - 57.00 56.00	D C				-100mm				55.6 to 60.0m: occasional thin laminations / partings of light greyish brown silty fine sand.	56 -
		56.50	D	100	100	100					Image: style="text-align: center;">Image: style="text-align: center;"/>Image: style=	
		57.00 57.00 - 58.50 57.50	D — D				-100mm				At 57.2m: 15mm thick layer of extremely weak light greyish brown claystone.	57 -
Hole Depth Bas	Diameter	Casing Diame	eter	oth Top	Depth	Chisel Base	ling Duration	Tool	Inclinat	ion and Orient	ation Drilling Flush	Max (%)
6.50 7.50 60.00	200 150 146	6.50 2 7.50 1	00 50	-put 10p	Doput	2436	Suradon			i base monidu	8.30 12.00 100 12.00 60.00 80	100 80

AGS

Hand dug ground level to 1.2m. Cable Percussion 1.2 to 7.5m. Rotary cored (Geobore-S) 7.5 to 60.0m.

roject	Name: Lo	ndon Water	Recycli	ng (LV	WR)		C	Client: Th	ames Water	Utilities Lto	ł		Date: 06	6/02/2025				
ocatio	n: London						C	Contracto	r:				Co-ords	: E517362	.98 N171	307.17		
oject	No. : GE2	1665					C	Crew Nan	ne: MY+PJ				Drilling E	Equipment	: Dando 2	000+Com	nacchio 30	5
B	orehole Nu	umber		Hole	е Туре	;			Level		Logge	d By		Scale		F	Page Numb	er
	MT-017	a		CP-	+RC			7 الم	.84m AoD		JH+	TL		1:20		S	heet 16 of	16
/ell	Water	Deptr (m)	ו ו יו	ype /FI	TCR	SCR	g RQD	Diamete Recovel (SPT)	Depth (m)	(m)	Legend	ł	S	stratum [Descript	ion		
		58.00		D	90	90	80					X Very fissu parti x and x subc x LON At 57.9m tight, clear x tight, clear x x	stiff to extre red greyish ngs abd thir fine sand. [F division A3]. IDON CLAY 20mm thick lay ccess. Slightly so .3m: fissure. 85 n, very stiff, unw	emely wea brown silty a laminatio Preliminary FORMATI er of destru tu andy, sand is degree dip. S reathered.	k very thir y CLAY wi ns of dark (London (ON Tred core. Pos fine. Simooth, plane	nly lamina th intermi c or light g Clay Form ssibly damag	ted ttent rey silt nation red during	
		58.50 58.50 - 60	0.00	D				–100mm	58.35 58.50	-50.51 -50.66		→ <u> NO</u> <u> 58.35 to 8</u> → Very ↓ fissu	RECOVERY 8.5m: no recover stiff to extre- ired greyish	ery. Core wash emely wea	hed out. k very thir y CLAY wi	nly lamina th intermi	ted ttent	_
		59.00 59.50		D	87	87	87				Yery sin to even weak very with yery sin to even with yeak very with partings abd thin laminations of dark or and fine sand. [Preliminary London Cla subdivision A3]. Yery sin to even with yeak very with yeak very sint to even with yeak very with yeak very sint to even with yeak very sint to e		: or light g Clay Form ghtly polishe	rey silt nation <i>d, very tight,</i>				
		59.75		D					59.80	-51.96		×	RECOVERY	r. y. Core wash	ęd out.			
								_	60.00	-52.16			Er	d of Boreh	ole at 60.0	00m		
Hole oth Ba 6.50	Diameter se Diameter 200	Casing D r Depth Base 6.50	Diameter Diameter 200	Dept	th Top	Depth	Chisel	lling Duration	Tool De	Inclina pth Top Dept	tion and Orie h Base Inclina	ntation tion Orienta	tion Depth Top 8.30	Depth Base	Drillin Type	g Flush Colour	Min (%) 100	
7.50 30.00	150 146	7.50	150										12.00	60.00			80	

			Unit 7,	Danw	orth Farm						Borehole No.
			Hurstp BN6 90	ıerpoir Gl	nt			Bo	reho	ole Loa	MT-019-35
Geo-E	Invironn	nental	www.g	esl.ne	t						Sheet 1 of 17
Projec	t Name:		London	Water F	Recycling (LWF	R) P G	Project No. SE21665		Co-ords:	515012E - 175010N	Hole Type CP+RC
Locati	on:	London Thames Water Utilities Ltc Vater trikes Sample and In Situ Test Depth (m) Type 0.30 B 0.30 ES 0.30 PID				E	Energy Ratio	(%):	Level:	22.49	Scale
			T I	14/-1			Rig Typ	be:	Data	00/00/0004	Logged By
Client:			Thames	VVater	Utilities Ltd			I	-Dates:	03/09/2024	TL
Well	Water Strikes	ter (es Depth (m) 0.30 0.30 0.30 ES 0.30 PID PID=0 0.70 - 0.90 B					Depth (m)	Level (m)	Legend	Stratum Description	1
		Dep 0 0 0 0 0 0 0 0 0 0 0 0 0	th (m) .30 .30 .30 .30 .30 .30 .30 .30	Type Type B ES PID ES PID B ES PID ES PID B ES PID B ES PID B ES PID B ES PID B ES PID B ES PID B ES PID B ES PID B ES PID B ES PID ES	Results PID=0.0pp PID=0.1pp PID=0.1pp PID=0.1pp PID=0.0pp PID=0.1pp PID=0.1pp PID=0.1pp PID=0.1pp PID=0.1pp PID=0.1pp PID=0.1pp PID=0.1pp PID=0.1pp PID=0.1pp	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0.40	22.09 21.49 21.29 20.89		Grass over MADE GROUND comprisin sity slightly gravelly CLAY with rootlets. coarse subangular concrete, flint. One s concrete cobble. MADE GROUND comprising firm brown greyish brown slightly sitty CLAY with vo crystals. Several subrounded to subang coarse flint gravel. MADE GROUND comprising firm greyis grey slightly sitty very slightly gravelly C hydrocarbon odour. Gravel is fine to coa to subrounded brick, flint, concrete. MADE GROUND comprising firm greyis silty slightly gravelly CLAY, with patches slightly sandy clay with organic odour. Coarse subangular to subrounded brick MADE GROUND MADE GROUND comprising firm to stif slightly silty slightly sandy slightly grave slight organic odour. With patches of da sandy clay. Gravel is fine to coarse sub subrounded flint and brick. MADE GROUND	g greyish brown Cravel is fine to subangular hish grey to ery fine selenite gular fine to to and fine to sh brown to dark CLAY, with faint arse subangular sh brown slightly Gravel is fine to and flint. f greyish brown lly CLAY with rk grey slightly angular to 2 - <i>wood.</i> 4 -
* • * • * • * • * • *	* • • •	4.70 5 5	- 5.20 .00 .00	B ES PID	PID=0.0pp	om					5 -
	Casing		Water Str	ikes (mbgl)	Chiselling	(mbgl)	Remarks				
Diame	ter Dept	h (m) 🛛 🛛	Depth Strike	Rose to	Depth from	Depth t	to Preliminary Lo	ondon Clay For	rmation subdivis	sions based on visual logs only.	
250	,) 9.8	80	11.70	11.50							AGS
200) 11.	.70									
L				I							

		Unit 7, Danworth Farn Hurstpierpoint BN6 9GL mentalwww.gesl.net : London Water Recycling (L London Thames Water Utilities Ltd Sample and In Situ Testi Depth (m) Type Res 5.20 - 5.65 D SPT N=20 (1,3					Ro	roh		Borehole No MT_019_4	o. 35
Geo	Environn	BN(6 9GL	st.			DC		UIE LUY	Shoot 2 of 4	17
Projec	ct Name:	Lond	don Water	Recycling (LWF	R) F	Project No. GE21665		Co-ords:	515012E - 175010N	Hole Type CP+RC	; ;
Locati	ion:	Lon	don		F	Energy Ratio	(%):	Level:	22.49	Scale	
Olianat					L	Rig Typ	be:	Datas	02/00/2024	Logged By	/
Client		lina	mes vvater	Utilities Ltd			1	-Dates:	03/09/2024	TL	1
Well	Water Strikes	Sa Depth (n	mple and I	n Situ Testing Results	3	Depth (m)	Level (m)	Legend	Stratum Description		
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5.20 - 5.6 5.20	5 D SPT	N=20 (1,3/4,4	4,5,7)				MADE GROUND comprising firm to stif slightly silty slightly sandy slightly grave slight organic odour. With patches of da sandy clay. Gravel is fine to coarse sub- subrounded flint and brick. MADE GROUND	f greyish brown Ily CLAY with Irk grey slightly angular to	
		5.70 - 6.2	20 B								
		6.00 6.00 6.20 - 6.6	5 UT	PID=0.0pp	om	6.00	16.49		MADE GROUND comprising firm greyis silty sandy slighty gravelly CLAY. Sand Gravel is fine to coarse subangular bric rarely partially decayed wood. MADE GROUND	sh brown slightly is fine to coarse. k and flint, and	6 -
		6.65 - 6.7 6.70 - 7.2	70 D 20 B								
* ·	• • •	7.00 7.00	ES PID	PID=0.0pp	om						7 -
	* * * * * * * * * * * * * * * * * * * *	7.20 - 7.6 7.20	5 D SPT	N=22 (2,4/4,	6,6,6)						
* ; • * ; • * ; • * ; • * ;		7.80 - 8.2	20 B			7.80	14.69		MADE GROUND comprising firm greyis sandy slighty gravelly CLAY with patche	sh brown to grey es of yellowish	
		8.00 8.00 8.20 - 8.6	5 UT	PID=0.1pp	om				to coarse subangular to subrounded flir MADE GROUND	it, rarely brick.	8 -
	9 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	8.00 ES PID P 8.20 - 8.65 UT VI VI 8.65 - 8.70 D B VI				8.60	13.89		MADE GROUND comprising firm dark I grey sandy slighty gravelly CLAY. Sand Gravel is fine to coarse subangular to s materials including brick, flint, glass, an decayed wood.	prown to dark is fine to coarse. ubrounded mixed d rare partially	
•	•	9.00 9.00	ES PID	PID=0.0pp	om				MADE GROUND		9 -
	9.00 ES 9.00 PIL 9.20 - 9.65 D 9.20 SP	5 D SPT	N=34 (3,4/5,8	,9,12))						
		9.70 - 10.1 10.00	20 B ES		om						10 -
		10.00									1
Diame 150 250 200	Casing eter Dept)) 9.1) 11.	Wat h (m) Depth S 11.7 80 .70	ter Strikes (mbgl Strike Rose 70 11.5) Chiselling to Depth from 66	(mbgl) Depth	n to Preliminary Lo	ondon Clay Fo	rmation subdivis	sions based on visual logs only.	AGS	5

		U	nit 7,	Danw	/orth	Far	m						Borehole N	0.
		H	urstpi	ierpoi	nt					Ro	rehr	nle I og	MT-019-	35
Geo-E	nvironn	Bl nentalw	90 אא אא טעו	∍∟ esl.ne	et								Sheet 3 of 1	17
								、 Pro	ject No.				Hole Type))
Projec	t Name:	LO	ondon	vvater	кесу	cling (LVVR) GE	21665		Co-oras:	515012E - 175010N	CP+RC	
Locati	on:	Lo	ondon					E	nergy Ratio	(%):	Level:	22.49	Scale	
								Dri	Rig Ty	ne:			1:25	
Client:		Tł	hames	Water	Utiliti	ies Lt	d		14919		Dates:	03/09/2024	TL	y
\A/all	Water	s	Sample	and I	n Siti	u Tes	ting		Depth	Level	Logond	Stratum Description	-	
vven	Strikes	Depth	(m)	Туре		Re	sults		(m)	(m)	Legenu	Stratum Description		
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					g/cm2 0.0pp	2 m	10.20	12.29		MADE GROUND comprising firm dark to grey sandy slighty gravelly CLAY. Sand Gravel is fine to coarse subangular to su materials including brick, flint, glass, and decayed wood. MADE GROUND Firm to stiff light grey mottled orangish to gravelly sandy CLAY. Sand is medium to is fine to medium subangular flint. With traces. KEMPTON PARK GRAVEL Yellowish grey sandy CLAY with patched	rown slightly o coarse. Gravel some relict root	11 -	
		11.00 ES PID PID=0.0p 11.10 - 11.70 B PID=0.0p 11.10 - 11.70 B PID=0.0p 11.70 - 12.15 D N=42 (5,7/9,1) 12.00 PID PID=0.0p							11.70	10.79		yellowish grey mottled orangish brown s KEMPTON PARK GRAVEL	ne to coarse	- -
		 11.50 ES 11.70 - 12.15 D SPT N=42 (5,7/9, 12.00 PID PID=0.0 12.20 - 13.20 B 12.50 ES 				7/9,11, 0.0pp	11,11) m				SAND. Gravel is fine to coarse subangu KEMPTON PARK GRAVEL	lar flint.	12 -	
	•	12.00 PID PID=0.0p												
	9 4 4 9 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	12.5	50	ES										13 -
		13.20 - ² 13.2	13.50 20	B CPT	N=	-21 (7,	12/9,4	1,4,4)	13.20	9.29	× × ×	Very stiff greyish brown mottled orangis silty sandy CLAY. Sand is fine.	h brown slightly	
		13.4 - 13.50 - 1	13.90	B		1	1	1	10.50		××			
		13:50 - ⁻ 13.6 13.7 13.80 - ⁻ 14.20 - ⁻ 14.20 - ⁻	15:00 60 70 13:90 14:70 14:70	ES ES D C UT	100	100	100		13.50	8.99		very stift thinly laminated very closely f fissured greyish brown slightly silty sar is fine. Fissures are dry, smooth, dull, clean, unweathered, with very stiff wall London Clay Formation subdivision C3 LONDON CLAY FORMATION 13.9 to 15.0m: gradual reduction in sand content, becon 14.0 to 14.9m: rare fossil worm burrows, approx 0.5 to	o closely Idy CLAY. Sand very tight, s. [Preliminary }.] ning slightly slity CLAY. 1mm diameter.	14 -
		14.70 - 7 15.00 - 7	14.80 16.50	D				100mm	15 10	7 30		14.7 to 14.8m: layer of slightly sandy CLAY. Sand is fine Medium strong greyish brown CLAYST [Preliminary London Clay Formation su	». FONE. ubdivision C3.]	15 -
				Type/F	TCR	SCR	ROD		13.10	1.59		LUNDON CLAY FORMATION		1
	Casing	\	Water Stri	kes (mbgl)		Chi	iselling (mbgl)	Remarks	1				
Diame	ter Dept	h (m) Dept	th Strike	Rose 1	to 6	Depth fr	om	Depth to	Preliminary Lo	ondon Clay Fo	rmation subdivisi	ions based on visual logs only.		
250 200) 9.8) 11.	80 .70		11.3									AGS	8

Item London Continuetur: Co-ordit: Est5012.21 N175010.20 ott No :: CE21665 Crew Nimer: AL Doling Equipment: Mill (19:35) More Type Corring (19:25) Statum Description III Weiter Depth Type Corring (19:25) Statum Description III Weiter Type Corring (19:25) Statum Description Median atom graph of the more CLV/STONE. III Weiter Tits 20: 15:30 D Tot Sci (10:25) Tot Sci (10:25) Tot Sci (10:25) III Weiter Tot Sci (10:25) Tot Sci (10:25) Tot Sci (10:25) Tot Sci (10:25) III Weiter Tot Sci (10:25) Tot Sci (10:25) Tot Sci (10:25) Tot Sci (10:25) III Weiter Tot Sci (10:25) Tot Sci (10:25) Tot Sci (10:25) Median atom sci (10:25) III Weiter Tot Sci (10:25) Tot Sci (10:25) Tot Sci (10:25) Median atom sci (10:25) III Weiter Tot Sci (10:25) Tot Sci (10:25) Median atom sci (10:25) Median atom sci (10:25) III Weiter Tot Sci (10:25) Tot Sci (10:25) Median atom sci (10:25) Median atom sc	ject	Name: Lo	ndon Water	Recycl	ing (LW	/R)		C	Client: Th	ames Water	Utilities Lt	d		Date: 03/	09/2024					
ct. No. : GE21865 Corw Mans: AL Drailing Equipment: Borehole Number Corw Mans: AL Logged By Scale Spale All Number M1-07-33 Corw Mans: AL Logged By Scale Spale All Number M1-07-33 Corw Mans: AL Logged By Scale Spale All Number M1-07-33 Corw Mans: AL Logged By Scale Spale All Number M1-07-33 Dorph Trop Corw Mans: AL Lowed Leged Number Stratum Description M1 15.20 - 15.00 D Trop Scale Resp. Trop Scale Resp. Trop Scale Resp. Model Mans: All Number All Num	atio	n: London						c	Contracto	r:				Co-ords:	E515012.	21 N1750	010.20			
Boended Lavel Laged Logad by Scale Page lumba Weiter Depth (m) Type CO-PTIC 228m Addit Tr 125 Scale Page lumba II Weiter Depth (m) Type Co-PTIC 228m Addit Level (m) Level (m) Level (m) Level (m) Level (m) Level (m) Level (m) Level (m) Medure storag graysh terms CL/NSTONE Page lumba 15.20 15.20 7.20 Tr Tr< <	ject	No. : GE2	1665					c	Crew Nan	ne: AL				Drilling E	quipment:					
MT-019-35 CP+PC Image: Control of the Control of t	В	orehole Nu	ımber		Hole	Туре				Level		Logged	I By		Scale		P	age Numb	er	
II Wetter Depth Uppe Common Priority Trace Stratum Description II 15.20 - 15.30 D Trace Trace Trace Media Stratum Description III 15.20 - 15.30 D Trace Trace Media Stratum Description III 15.20 7.29 Media Media Stratum Description III 100 100 100 Trace Media Stratum Description III 100 100 100 III Trace Media Stratum Description IIII 100 100 100 IIIIII Trace Media Stratum Description IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		MT-019-	35		CP+	RC	<u> </u>		22	2.49m AoD		TL	1		1:25		S	Sheet 4 of	17	
15:20 - 15:30 D 15:20 7:29 The summary of the submary of the sube	ell	Water	Depth (m)	1 T	ype /FI	C TCR	SCR	g RQD	Diamete Recover (SPT)	Depth (m)	Level (m)	Legend		St	ratum D	escripti	ion			
10.000 1005 1007			15.20 - 15	5.30	D	100	100	100	-100mm	15.20	7.29		Medium Prelim LONDO Very st issure smooth stiff wa horizor LONDO At 15.3m; pa 15.4 to 15.5m 15.7 to 15.8m vertical) have 15.7 to 15.8m	n strong gr inary Lond ON CLAY F iff thinly lar d greyish b n, dull, very lils. Fissure thal and ap inary Lond ON CLAY F riting of grey sil n: layer of silgt n: layer of silgt points. n: layer of silgt	Tary London Clay Formation Subdivision C N CLAY FORMATION f thinly laminated very closely to closely greyish brown silty CLAY. Fissures are dr dull, very tight, clean, unweathered, with 's s. Fissures at various angles between al and approx. 80 degrees from horizontal nary London Clay Formation subdivision C N CLAY FORMATION ing of grey silty silty fine SAND. layer of sightly sandy CLAY. Sand is fine. some fissures (which are inclined at approx 40 degrees sight poish. layer of slightly sandy CLAY. Sand is fine. re through core. Inclined at 60 degrees from horizontal. re through core. Inclined at 60 degrees from horizontal. re through core. Inclined at 60 degrees from horizontal. fissure at 16.8m. Smooth, planar, dull, very tight, clean, tered. re through core. Inclined at 70 degrees from horizontal. re through core. Inclined at 70 degrees from horizontal. ry tight, clean, stiff walls, unweathered.					
18.00 D 100mm 18.00 18.00 - 19.50 D 18.00 - 19.50 D 100mm 18.00 - 19.50 D 18.00 - 19.50 18.00 - 19.00 C 18.00 - 19.00 18.60 - 19.00 C 18.60 - 19.00 19.00 - 19.10 D 93 87 19.00 - 19.10 D 100mm 19.50 - 21.00 100mm 100mm 19.50 - 21.00 Image: transmediance test 100mm 19.50 - 21.00 Image: transmediance test 100mm 19.50 - 21.00 Image: transmediance test 100mm Image: transmediance test 100mm 100mm 100mm Image: transmediancest test 100mm <td< td=""><td></td><td></td><td>16.50 - 18</td><td></td><td></td><td>105</td><td>105</td><td>105</td><td>loomm</td><td></td><td></td><td></td><td>At 16.8m: fis: planar, dull, v At 16.9m: fis: conjugate wii walls, unwea At 17.2m: fis: planar, dull, v</td><td>sure through c rery tight, clear sure through c th fissure at 16 thered. sure through c rery tight, clear</td><td colspan="5">any Longer Formation Subdivision CS. J yer of slightly sitty fine SAND. ayer of slightly sandy CLAY. Sand is fine. some fissures (which are inclined at approx 40 degrees from fight polish. ayer of slightly sandy CLAY. Sand is fine. some fissures (which are inclined at approx 40 degrees from fight polish. ayer of slightly sandy CLAY. Sand is fine. wight, clean, stiff walls, unweathered. e through core. Inclined at 60 degrees from horizontal. Sm y tight, clean, stiff walls, unweathered. e through core. Inclined at 60 degrees from horizontal, lissure at 16.8m. Smooth, planar, duil, very tight, clean, stiff red. e through core. Inclined at 70 degrees from horizontal. Sm y tight, clean, stiff walls, unweathered. e through core. Inclined at 70 degrees from horizontal. Sm y tight, clean, stiff walls, unweathered. gate pair of fissures. 70 degree dip, smooth, planar, slight f gate of sandy clay. Sand is fine. silty, very slightly sandy. Sand is fine. silty, very slightly sandy. Sand is fine. ayer of sandy clay. Sand silty, very slightly sandy. Sand is fine. ayer of sandy clay. Sand sittir walls, unweathered. ayer of sandy</td></td<>			16.50 - 18			105	105	105	loomm				At 16.8m: fis: planar, dull, v At 16.9m: fis: conjugate wii walls, unwea At 17.2m: fis: planar, dull, v	sure through c rery tight, clear sure through c th fissure at 16 thered. sure through c rery tight, clear	any Longer Formation Subdivision CS. J yer of slightly sitty fine SAND. ayer of slightly sandy CLAY. Sand is fine. some fissures (which are inclined at approx 40 degrees from fight polish. ayer of slightly sandy CLAY. Sand is fine. some fissures (which are inclined at approx 40 degrees from fight polish. ayer of slightly sandy CLAY. Sand is fine. wight, clean, stiff walls, unweathered. e through core. Inclined at 60 degrees from horizontal. Sm y tight, clean, stiff walls, unweathered. e through core. Inclined at 60 degrees from horizontal, lissure at 16.8m. Smooth, planar, duil, very tight, clean, stiff red. e through core. Inclined at 70 degrees from horizontal. Sm y tight, clean, stiff walls, unweathered. e through core. Inclined at 70 degrees from horizontal. Sm y tight, clean, stiff walls, unweathered. gate pair of fissures. 70 degree dip, smooth, planar, slight f gate of sandy clay. Sand is fine. silty, very slightly sandy. Sand is fine. silty, very slightly sandy. Sand is fine. ayer of sandy clay. Sand silty, very slightly sandy. Sand is fine. ayer of sandy clay. Sand sittir walls, unweathered. ayer of sandy					
e Diameter Casing Diameter Chiselling Inclination and Orientation Dremsure discussed by Diameter e Diameter Casing Diameter Chiselling Inclination and Orientation Dremsure discussed by Diameter			18.00 18.00 - 19	9.50	D -				-100mm				At 17.6m: col very light, cle 17.8 to 17.9n 18.0 to 19.5n 18.0 to 19.5n 18.0 to 19.5n 18.0 to 19.5n	hered. ure through core. Inclined at 70 degrees from horizonta ny tight, clean, stiff walls, unweathered. jugate pair of fissures. 70 degree dip, smooth, planar, s an, stiff walls, unweathered. : layer of sandy clay. Sand is fine. : silty, very slightly sandy. Sand is fine. ble-sized angular claystone nodule. : rare medium gravel-sized tabular rounded claystone n : intermittent conjugate fissuring. Fissures dj 60 to 80.				ar, slight polis	1,	
Image: 19.50 - 21.00 100mm 100mm Image: 19.50 - 21.00			18.60 - 19 18.60 - 19 19.00 - 19	9.00 9.00 9.10	C UT D	93	87	87					18.3 to 18.5n 18.3 to 19.5n smooth, plan Spacing betw Spacing betw 7 7 7 7 7 7	n: rare medium n: intermittent , slight post veen fissures i:	n gravel-sized conjugate fis: h, very tight, d s approx. 200	d tabular rou suring. Fissu clean, very s 0 to 400 mm.	nded claysto rres dip 60 to tiff walls, unv	ne nodules. 80 degrees, veathered.		
Image: State in the state			19.50 - 21	.00	_				-100mm					sure through c polish, very tig n: core lost due n: core disturbe	ore. Inclined ght, clean, ve e to pressure ed by pressu	es from horizo unweathered	ontal. Smooth d.			
Base Diameter Depth Base Diameter Depth Top Depth Top Depth Base Duration Tool Depth Top Depth Top Depth Base Inclination Orientation Depth Top Depth Base Type Colour Min (%)	le	Diameter	Casing D	Diameter				Chisel	ling		Inclina	ation and Orien	tation			Drillin	g Flush		\bot	
880 250	Ba	se Diameter	Depth Base	Diameter 150	r Depth	п Тор	Depth E	Base	Duration	Tool De	pth Top Dep	th Base Inclinati	on Orientation	n Depth Top	Depth Base	Туре	Colour	Min (%)	M	



oject	Name: Lo	ondon Water	Recyc	ling (L	WR)		C	Client: Th	ames Wate	r Utilities	Ltd				Date: 03	/09/2024				
catio	n: London						C	Contracto	r:						Co-ords:	E515012	.21 N175	010.20		
oject	No. : GE2	21665					C	Crew Nan	ne: AL						Drilling E	Equipment	:			
В	orehole Nu	umber		Hole	е Туре	•			Level			Log	ged E	Ву		Scale		F	age Num	ber
	MT-019-	35 Dam#b		CP	P+RC		~	22 1a 2	2.49m AoD				TL			1:25		5	Sheet 5 of	17
ell	Water	(m)	1	/FI	TCR	SCR	y RQD	Diamet Recove (SPT	(m)	(m)	Lege	nd		S	tratum D	Descript	ion		
		20.50 20.60 - 21 20.60 - 21	1.00	D C UT	77	63	63	(21)						Very stif fissured smooth, stiff wall horizont [Prelimir LONDO [At 20.4m: med 20.5 to 21.0m:	f thinly la greyish dull, ver s. Fissur al and ap nary Lon N CLAY <u>ium to coar</u> <u>very slightly</u>	iminated v brown silty y tight, cle es at varico poprox. 80 d don Clay F FORMATI se gravei-size y sandy. Sanc	ery close / CLAY. F an, unwe bus angle: degrees f -ormation ON d claystone t is fine.	ly to close issures ar athered, v s betweer rom horizo no ubdivisi nodules.	ly e dry, vith very ontal. on C3.]	
		21.00 - 22 21.50	2.50	D	100	70	70	- (31) 100mm						24.25 to 24.5m clean, very stif 21.75 to 22.0m clean, stiff.	n: fissure. 60 degree, dip, smooth, planar, slight polish, very tight, ff. n: fissure. 80 degree, dip, smooth, planar, slight polish, very tight, : fissure. 80 degree, dip, smooth, planar, slight polish, very tight, dium gravel-sized claystone nodules.					
		22.50 - 24	1.00					-100mm	22.50	-0.0	11	× ×_ ×_ ×		22.1 to 22.4m: clean, stiff. At 22.3m: med No reco 22.5 to 23.75m	fissure. 80 ium gravel very. :: core lost.	degree, dip, s sized claystor Flush returns	sh, very tight,			
					17	17	0		00.75											
		23.80		D					23.15	-1.2	.0		<u>×</u>	Very stif fissured	f thinly la greyish	minated v	ery close (CLAY. F	ly to close issures ar	ely e dry,	
		24.00 - 24	.75					-100mm				<u>×</u> _	 	smooth,	dull, ver s. [Prelin	y tight, cle	an, unwe don Clav	eathered, v	vith very	
					113	113	113							At 24.35 to 24.7m clean, very stif	ion C2.] N CLAY slightly silty dium grave	FORMATI	ON one nodule.	nar, slight po	lish, very tight	,
ole	Diameter	Casing D	Diameter	·			 Chisel	ling		Inc	linatio	n and O	rienta	ition			Drillir	ng Flush		
Ba	se Diamete	r Depth Base	Diamete 150	er Dep	oth Top	Depth	Base	Duration	Tool D	epth Top	Depth E	Base Inc	linatior	n Orientation	Depth Top	Depth Base	Туре	Colour	Min (%)	M
		9.80 11.70	250 200																	

AGS

	ame. Lu	ndon Water	Recy	cling (L	WR)		C	Client: Th	ames Water	Utilities Lto		Date: 03/09/2024	
ation:	London						C	Contracto	r:			Co-ords: E515012.21 N175010.20	
ject No	o. : GE2	1665					C	Crew Nan	ne: AL			Drilling Equipment:	
Bore	hole Nu	mber		Hol	e Type)		2'			Logged	By Scale Page Number	r ,
	/11-019-	Depth	n	Tvpe		orin	a	eter /ery T)	Depth	Level			
V	Vater	(m)	-	/FI	TCR	SCR	RQD	Diame Recov (SP ⁻	(m)	(m)	Legend	Stratum Description	
		24.70 24.75 - 25 25.50 - 27	s.50 r.00	D	107	107	107	-100mm -100mm				 Very stiff thinly laminated very closely to closely fissured greyish brown silty CLAY. Fissures are dry, smooth, dull, very tight, clean, unweathered, with very stiff walls. [Preliminary London Clay Formation subdivision C2.] LONDON CLAY FORMATION 24.8 to 25.5m: closely spaces fissures (20 to 60 mm spacing, approx 40mm mean). Fissures are smooth, planar, slightly polished, very tight, clean, very stiff walls, unweathered. All dip at 10 to 40 degrees in various directions. Additional fissures with same characteristics and 80 degree dip at 24.8m, 25.35m, 26.5m, 26.9m. 24.9 to 25.0m: fissure through core. Inclined at 70 degrees from horizontal. Smooth, planar, slight polish, very tight, clean, very stiff walls, unweathered. 25.5 to 26.3m: core disturbed by pressuremeter test. 	2
		27.00 27.00 - 28	3.50	D	100	73	73	- (43) 100mm				At 26.8m: rounded coarse gravel-sized claystone nodule. 26.8 to 27.0m: slightly silty, very slightly sandy. Sand is fine. 27.4 to 27.6m: fissure through core. Inclined at 70 degrees from horizontal.	2
		28.00	0.00	D	100	73	53	-100mm	27.70	-5.21		 Smooth, pianar, slight polish, very tight, clean, very stiff walls, unweathered. Very stiff very thinly laminated very closely to closely fissured brownish grey slightly silty CLAY. Fissures are dry, smooth, dull, very tight, clean, unweathered, with very stiff walls. Most are subhorizontal, with some angled between 20 and 70 degrees from horizontal. [Preliminary London Clay Formation subdivision C1.] LONDON CLAY FORMATION At 27.7m: fissure through core. Inclined at 10 degrees from horizontal. Smooth, <i>indulating, slight polish, very tight, clean, very stiff walls, unweathered.</i> [27.1 to 27.3m: extremely closely fissured. [28.1 to 28.2m: pair of fissures. 90 degree dip, smooth, planar, slighty polished to polished, very tight, clean, terminating on subhorizontal discontinuation [laminations/bedding), very stiff, unweathered. Both fissures subverting, and 	
		29.00		D	100	100	100					28.3 to 28.4m: extremely closely fissured. 28.1 to 28.2m: fissure. 90 degree dip, smooth, planar, slighty polished to polished, very tight, clean, terminating on subhorizontal discontinuities (laminations/bedding), very stiff, unweathered.	
le Dia	ameter	Casing D	Diamete	er	L		Chisel	ling	[Inclina	tion and Orienta	tation Drilling Flush	
Base	Diameter	9.80 11.70	Diame 150 250 200	ter De	pth Top	Depth I	Base	Duration	Tool De	pth Top Dept	h Base Inclinatio	on Orientation Depth Top Depth Base Type Colour Min (%)	Ma

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roject	Name: Loi	ndon Water	Recycl	ing (L	WR)		C	lient: Th	ames Wate	er Utilitie	s Ltd			Date: 03/09/2024				
ocatio	n: London						c	Contracto	or:					Co-ords: E515012	2.21 N175	010.20		
roject	No. : GE2	1665					c	Crew Nar	me: AL					Drilling Equipmen	t:			
Bo	orehole Nu	mber		Hole	е Туре	•			Level			Logged I	Ву	Scale		P	age Numb	er
	MT-019-3	35 Danth		CP	P+RC		~	2 '∋≧_	2.49m AoD			TL		1:25		5	Sheet 7 of 7	17
Vell	Water	(m)		/FI	TCR	SCR	9 RQD	Diamet Recove (SPT	(m)	(n	n)	egend		Stratum	Descript	ion		
		30.00 30.00 - 31. 30.80 - 31. 30.80 - 31. 31.20	.50	о сл	100	90	40	-100mm					Very sti fissured are dry, with ver angled [Prelimi LONDC 29.5 to 29.9m. Smooth, plane unweathered. 30.0 to 31.5m polished, very unweathered. At 30.2m: foss	ff very thinly lamina brownish grey slig smooth, dull, very y stiff walls. Most a between 20 and 70 nary London Clay IN CLAY FORMAT silty, very slighty sandy multiple fissures. Incline <i>rreminate out of core or</i> fissures are closely to <i>n</i> tight, dip between 0 and il shell.	ated very of ghtly sitty (tight, clea are subhoro) degrees Formation [ON _Sand is fine. d at 70 to 90 d, very tight, gearist lamin redium spacia 30 degrees, -	closely to CLAY. Fiss in, unweat izontal, w from horiz subdivisio degrees fron clean, very ations. ng, smooth, p very stiff walt very stiff walt	closely sures thered, ith some contal. on C1.] <i>n horizontal.</i> <i>iff walls,</i> <i>uanar, slighty</i> <i>s,</i>	30
		31.50 - 33.	.00	D	100	87	60	-100mm					32.10 to 32.25	im: CLAYSTONE.	-			32
		33.00 33.00 - 34. 33.70 - 34.	.10	D	97	80	80	- (48) 100mm					33.0 to 33.9m 33.6 to 33.9m polished, very	core damaged by press core damaged by press fissure. 80 degree dip, tight, clean, very stiff, u	uremeter test	t. ar, slighty poli	shed to	33
Hole epth Bas	Diameter	Casing D Depth Base	iameter Diamete	r Dep	oth Top	Depth	Chisel	ling Duration	Tool I	In Depth Top	clination Depth Bas	X and Orienta	ation n Orientation	Depth Top Depth Bas	Drillin e Type	ig Flush Colour	Min (%)	34
		9.80 11.70	250 200															

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Project	Name: Lo	ndon Water Rec	yclina (LWR)		C	Client: Th	ames Wate	er Utilitie	s Ltd			Date: 03/	/09/2024				
_ocatio	n: London		·)				Contracto	r:					Co-ords:	E515012	21 N1750	010.20		
Proiect	No. : GE2	1665				0	Crew Nan	ne: AL					Drilling E	auipment				
B	prehole Nu	Imber	Ho	ole Type	;			Level			Logged	Ву	2	Scale		P	age Numb	er
	MT-019-	35	C	P+RC			22	2.49m AoD			TL			1:25		5	Sheet 8 of	17
Well	Water	Depth (m)	Type /FI		orin	g	iamete ecover (SPT)	Depth (m)	Le'	vel n)	Legend		S	tratum D	escript	ion		
		(m) 34.20 34.50 - 36.00 35.00 36.00 - 37.50 37.00	D	103	103	60 25	-100mm	(m) 34.40	-11	n) .91		Very sti fissured are dry, with vei angled [Prelimi LONDC 34.2 to 34.3m polished, ver Very sti fissured is fine. subdivi: LONDC 34.4 to 35.2m 34.5 to 35.6t degrees, smo unweathered. 36.2 to 36.m3 polished, very 36.4 to 50.0m 36.45 to 36.6t 36.6 to 37.5m closely space unweathered, slighty polishe degree dip, di every stiff, unw At 36.8m: wor layer.	ff very thil between 2 smooth, - y stiff wal between 2 N CLAY 1 frsure. 10 N CLAY 1 ff thinly la greyish H (Prelimina sion B2.] N CLAY 1 gredual red : core recover : res dip at be lished, very 1 5 : slightly striat tight. clean, : becoming s : extremely : three sets c d, smooth, pl Set 2: 40 to d, very tight, osely spacea eathered. Te m fossils up	hly lamina n grey slig dull, very ti S. Most a 20 and 70 Jon Clay F FORMATI igere dip, si very stiff, un minated v prown silly ry Londor FORMATI uction in same cobbit tred as cobbit tred as cobbit tred as cobbit treven 60 am ight, clean, vi ely fissured. I lighty polishe ted fissure. 6 very stiff, unv lightly silty Cl closely fissure fissures. Si anar, slighty p 60 degree di clean, very 5, smooth, pla minates aga to about 1mm	ted very of tight, clear e subhor ON nooth, plana weathered. ery closel slightly s of Clay For ON d content, be -sized block of content, be -sized block of a content, be -sized block -si	closely to c LLAY. Fiss n, unweal izontal, w from horiz subdivisio w from horiz subdivisio horiz subdivisio horiz	closely sures thered, ith some zontal. on C1.] shed to Ly Y. Sand CLAY. ly to closely anar, slighty 0 and 60 clean, very stiff anar, slighty rery closely to , very stiff, h, planar, 70 to 80 r 0 to 80 r 10 to 10 tight, clean, horizontal	35 - , , , , , , , , , , , , , , , , , , ,
	Diameter	37.50 - 39.00 38.00	D	100	33	25	-100mm					37.5 to 38.6m At 37.65m: fo Bmm diamete	<u>.6m; SPT at 37.5m. Core dam</u> aged 37.5 to 38.6m. <u>: fossil, possibly bone or wood</u> fragment. 25mm long, oval profile, <u>reter.</u> <u>greyish brown silt parting.</u>					38 -
Hole Depth Ba	Diameter se Diameter	Casing Diame	neter D	epth Top	Depth I	Chisel Base	IIng Duration	Tool [In Depth Top	Clinatior Depth B	n and Orienta ase Inclinatio	n Orientation	Depth Top	Depth Base	Drillin Type	g Flush Colour	Min (%)	Max (%)
		9.80 29	50 50															



oject	Name: Lo	ndon Water I	Recyclin	ig (LW	/R)		C	Client: Th	ames Water	Utilities Lt	d	Date: 03/09/2024						
catio	n: London						C	Contracto	r:			Co-ords: E515012.21 N175	010.20					
ject	No. : GE2	1665					C	Crew Nan	ne: AL			Drilling Equipment:						
В	orehole Nu	umber		Hole	Туре				Level		Logged	By Scale	Page Numb	er				
	MT-019-3	35 Donth	Т		RC	orin	~	22 13 20 (2.49m AoD			1:25	Sheet 9 of 1	7				
ell	Water	(m)	/		TCR	SCR	9 RQD	Diame Recove (SPT	(m)	(m)	Legend	Stratum Descript	ion					
		39.00 39.00 - 40. 39.70 - 40.	10	c	93	93	73	- 80mm				Very stiff thinly laminated very close fissured greyish brown silty slightly : is fine. [Preliminary London Clay Fo subdivision B2.] LONDON CLAY FORMATION At 39.4m: fissure. 0 degree dip, smooth, planar, slig very tight, clean, very stiff, unweathered. 39.4 to 39.5m: fissure. 45 degree dip, smooth, plana- polished, very tight, clean, very stiff, unweathered. 39.5 to 39.6m: fissure. 60 degree dip, smooth, plana- polished, very tight, clean, very stiff, unweathered.	GreVISh Drown Sitty Sitghity Sandy OLAT. Sand Preliminary London Clay Formation sion B2.] IN CLAY FORMATION Ire. 0 degree dip, smooth, planar, slighty polished to polished, in, very stiff, unweathered. fissure. 60 degree dip, smooth, planar, slighty polished to tight, clean, very stiff, unweathered. fissures. 60 degree dip, smooth, planar, slighty polished to tight, clean, very stiff, unweathered. fissures closely spaced, dip 60 to 70 degrees, smooth, planar, tight, clean, very stiff, unweathered. educing sand content, becoming slightly slity to slity CLAY. : pressuremeter at 40.5m. Core disturbed 40.5 to 41.3m.					
		40.20		D								40.25 to 40.5m: fissures closely spaced, dip 60 to 7 polished, very tight, clean, very stiff, unweathered.	m: fissures closely spaced, dip 60 to 70 degrees, smooth, planar tight, clean, very stiff, unweathered. <u>reducing sand content, be</u> coming slightly silty to silty CLAY. : pressuremeter at 40.5m, Core disturbed 40.5 to 41.3m.					
		40.50 - 42. 41.00	00	D	100	60	40	-100mm				From 40.5m: reducing sand content, becoming sligt 40.5 to 41.3m: pressuremeter at 40.5m. Core distur	5m: fissures closely spaced, dip 60 to 70 degrees, smooth, planar, ny tight, clean, very stiff, unweathered. <u>reducing sand content, be</u> coming slightly silty to silty CLAY. <u>m: pressuremeter at 40.5m</u> . Core disturbed 40.5 to 41.3m.					
		42 00						-100mm				41.5 to 41.6m: fissure. 90 degree dip, becoming 80 Smooth, undulating, slighty polished, very tight, cle 41.8 to 41.9m: fissure. 30 degree dip. Smooth, plan tight, clean, very stiff, unweathered.	5m: fissure. 90 degree dip, becoming 80 degree dip with depth. dulating, slighty polished, very tight, clean, very stiff, unweathered. 3m: fissure. 30 degree dip. Smooth, planar, slighty polished, very very stiff, unweathered. 5m: core damaged by SPT. 5m: core damaged by SPT. nedium gravel-sized nodule (15mm diameter) of slightly pyritised 7m: fissure. 85 degree dip. Smooth, planar, polished, very tight, stiff, unweathered.					
		42.00 42.00 - 43.	50		100	73	47					42.0 to 42.5m: core damaged by SPT. At 42.4m: medium gravel-sized nodule (15mm diarr claystone. 42.5 to 42.7m: fissure. 85 degree dip. Smooth, plan clean, very stiff, unweathered.						
		43.00		D								At 43.0m: slightly pyritised fossil, possibly wood 43.0 to 45.0m: fissures medium spaced. 43.1 to 43.4m: fissure. 90 degree dip. Smooth, plan clean, very stiff, unweathered.	lightly pyritised fossil, possibly wood m: fissures medium spaced. m: fissure. 90 degree dip. Smooth, planar, polished, very tight, stiff, unweathered.					
		43.50 - 45.	00	┝				100mm										
											<u>xx</u>			_				
lole	Diameter	Casing Di	ameter				Chisel	lina		Inclina	ation and Orienta	ation Drillir	na Flush					
h Ba	se Diameter	9.80	Diameter 150 250 200	Depth	1 Тор	Depth	Base	Duration	Tool De	pth Top Dep	th Base Inclinatio	n Orientation Depth Top Depth Base Type	Colour Min (%)	N				



roject	Name: Lo	ndon Wate	r Rec	ycling (I	_WR)		(Client: Th	ames Wa	ter Utilitie	s Ltd			Date: 03/	09/2024				_
ocatic	n: London						(Contracto	or:					Co-ords:	E515012	.21 N175	010.20		
roject	No. : GE2	1665					(Crew Nar	ne: AL					Drilling E	quipment	:			
В	orehole Nu	imber		Ho	е Туре	9			Level	_		Logged E	Зу		Scale		P	age Num	ber
	MT-019-3	35 Dont	 h		P+RC	`orin		2 ard re	2.49m Aol			TL			1:25		S	heet 10 of	17
Nell	Water	(m)		/FI	TCR	SCR	y RQC	C Diamet Recove (SPT	(m)	(r	n)	Legend		St	ratum D	Descript	ion		
		44.00 44.10 - 4) 4.50	DC	80	80	40						Very sti fissurec is fine. subdivis LONDC 43.7 to 43.8m stiff, unweathe	ff thinly lar greyish b Prelimina sion B2.] N CLAY F fissure. 50 a red.	minated v rown silty ry Londor CORMATI legree dip, si legree dip, si sethered.	ery closei y slightly s n Clay Foi ON mooth, plana mooth, plana	y to close andy CLA mation r, dull, very ti ar, slighty poli	ly Y. Sand ^{[ght, clean, ve}	_{ry} 44
		45.00 - 4) 6.50	D				–100mm			<u> </u>		45.1 to 45.2m stiff, unweathe At 45.5m: two 25 mm W x 10	fissure. 45 d red. claystone no 0 mm H.	legree dip. R 	; dull, very tig . Tabular sha	pht, clean, ver pe, 30 mm L	45 y x	
		46.00)	D	100	100	44				<u> </u>		At 45.9m: fiss clean, very sti 46.1 to 46.3m tight, clean, ve	wo claystone nodules. Moderately strong. Tabular shape, (10 mm H					46
		46.50 - 4	8.00					–100mm			<u> </u>		At 46.5m: 100	mm thick clay	ystone (entire	e core diame	ter).		
		47.00 47.50 - 4) 7.90	D	93	93	87				<u> </u>		At 47.0m: pyri 30mm length. 47.2 to 47.4m clean, very sti 47.4 to 47.5m polished, very	yritised nobbly cylindrical fossil, possibly a root. 15mm o h. 					47
		48.00 48.00 - 4) 9.50	D				–100mm			<u> </u>		At 48.25m: fra	gment of foss	silised wood.	10mm diam	eter, 35mm l	length.	48
Hole	Diameter	Casing	Diame	ter		ļ	Chise	lling		In	clination	and Orienta	tion			Drillin	g Flush	1	
pth Ba	se Diameter	9.80 11.70	Diam 15 25 20	eter De 0 0 0	pth Top	Depth	Base	Duration	Tool	Depth Top	Depth Ba	ase Inclination	n Orientation	Depth Top	Depth Base	Туре	Colour	Min (%)	Max (



Project	Name: Lo	ndon Wate	r Recvcl	ling (L	WR)		(Client: Th	ames Wat	ter Utilitie	es Ltd				Date: 03	/09/2024				
ocatio	n: London				,			Contracto	r:						Co-ords:	E515012	21 N175	010.20		
Proiect	No. : GE2	1665						Crew Nan	ne: AL						Drilling E	auipment				
Bo	orehole Nu	Imber		Hole	е Туре	•			Level			Lc	ogged E	Зу	5	Scale		F	age Numb	er
	MT-019-	35		CF	+RC			22	2.49m Ao[<u> </u>		1	TL			1:25		s	heet 11 of	17
Well	Water	Deptł (m)	h 1	Гуре /FI	C TCR	SCR	g RQD	Diamete Recover (SPT)	Depth (m)	n Le (r	evel m)	Leg	gend		S	tratum D)escript	ion		
		49.00 49.50 - 5	1.00	D	93	93	73	-100mm						Very stil fissured is fine. [subdivis LONDO 48.4 to 48.7m: polished, very 47.4 to 48.9m: polished, very 47.4 to 47.5m: tight, clean, ve	f thinly la greyish Prelimina sion B2.] N CLAY fissure 85 tight, clean, fissure 85 tight, clean, fissure 90 ry stiff, unw	minated v brown silty rry Londor FORMATI degree dip. S very stiff, unv degree dip. S very stiff, unv degree dip. S eathered.	ery close y slightly s o Clay For ON mooth, plane veathered. mooth, plane veathered. mooth, plane	y to close andy CLA mation ar to undulati ar to undulati	ly AY. Sand ng, slighty ng, slighty ng, dull, very	49
		49.30 - 3 50.20	1.00	D	100	100	40		50.00	-27	7.51			49.8 to 50.0m: clean, very stil Very stil brown s [Prelimi LONDO 50.0 to 51.2m: 50.0 to 51.2m: 50.4 to 50.8m: Smooth, plane	m thick laye fissure. 90 ff, unweathe ff very thii ilty slight nary Long N CLAY decreasing fissure. 40 ff, unweathe three parali r, slight poli:	degree dip. S red. Inly lamina ly sandy C don Clay F FORMATI sand content degree dip. S red. el fissures sp sh, very tight,	e. Core dame mooth, curve ted close LAY. San Formation ON becoming s mooth, curve aced at 20 to clean, very :	y fissurecc d surface, d y fissurecc d is fine. subdivisi slightly silty to d surface, d o 60 mm. 45 stiff, unweath	49.55m. I greyish I greyish on B1.] o silty clay ull, very tight, degree dip. ered.	- 50 -
		51.00 51.00 - 52	2.50	D				-100mm						At 51.0m: foss 51.2 to 51.6m: clean, very stil	ilised wood. fissure. 90 fi, unweathe	15mm diame degree dip. S. red.	ter, 100mm mooth, plane	length. ar, slight polis	sh, very tight,	51
		51.70 - 52	2.10	С	97	97	97							51.2 to 52.5m: various direction unweathered.	closely fissions. Smooth	ured. Fissure: I, planar, sligh —	s dip betwee tly polished,	n 20 ans 60 d very tight, cl	degrees in ean, very stiff,	52
		52.20 52.50 - 54	4.00	D				-100mm						52.25 to 52.5n clean, very stil 52.4 to 54.0m: spaced.	n: fissure. 90 ff, unweathe very stiff to) degree dip red. extremely we	Smooth, plar ak and silty.	nar, polished, Fissures clo	very tight, se to medium	
		53.00		D										53.1 to 53.2m: very tight, clea	fissure. 90 n, very stiff,	degree dip. S unweathered	mooth, curve	ed surface, si	ightly polished	, 53
Hole	Diameter	Casing [Diameter	r De-	th To -	Denth 1	Chise	ling	Tool	I Ir	IDor#	on and	Orienta		Denth Tai	Depth Dar -	Drillin	g Flush	Min (9/)	
иертп Ва	Diameter	9.80 11.70	150 250 200	n Dep	ин төр	Uepth E	base	Duration	1001	Depth Top	Depth	Dase	mennation		υερτη Ιορ	Depth Base	туре	Colour	IVIIN (%)	wax (%



oject	Name: Lo	ndon Water R	Recyclin	ng (LWR)	C	Client: Th	ames Wate	r Utilities L	td			Date: 03	/09/2024				
atic	n: London					0	Contracto	r:					Co-ords:	E515012	.21 N1750	010.20		
ject	No. : GE2	1665				C	Crew Nan	ne: AL					Drilling E	Equipment	:			
В	orehole Nu	umber		Hole Ty	pe		00	Level			Logged I	Ву		Scale		F	age Numb	er
	1011-019-	Depth	Т	/pe	Corir	a	ery	Depth	Leve		1			1.25		3	neel 12 0i	17
	Water	(m)	//	FI TC	R SCR	RQD	Diame Recov (SP ⁻	(m)	(m)	Ľ	egend		S	tratum D	Descripti	on		
		54.00 54.00 - 55.5	50	90 D	90	90	-100mm					Very stil brown s [Prelimi LONDO 53.3 to 53.4m: tight. clean, ve At 53.4m: cobi	ff very thi ilty slight nary Lom N CLAY fissure. 45 by stiff, unw ble-sized cla	nly lamina ly sandy C don Clay F FORMATI degree dip. S eathered. systone nodul	ted closel LAY. San Formation ON mooth, plana e.	y fissured d is fine. subdivisio r, slightly po sandy. Sand	l greyish on B1.] lished, very	54
		55.00	1	10 D	0 100	80						54.3 to 54.4m: very stiff, unwe At 54.4m: foss stiff, unweathe 54.7 to 54.8m: very stiff, unwe	fissure. 45 bathered. Jilsed wood ure. 15 degr red. fissure. 70 bathered.	degree dip. S fragment. 8m ee dip. Smoo degree dip. S	mooth, plana m diameter, th, planar, du mooth, plana	ır, dull, very t 15mm length II, very tight, ır, dull, very t	ight, clean, clean, very ight, clean,	55
		55.50 - 57.0	00				-100mm			4 X X X X X X X		At 55.2m: foss	ilised wood fissure. 90 eathered. core disturt	fragment. 8m degree dip. S bed by pressu	m diameter, 2 mooth, plana irremeter test.	25mm length r, dull, very t	ight, clean,	56
•		57.00		D	0 33	20	-100mm	56.60	-34.11			Very stil brownis closely : grey silt [Prelimi LONDC	ff very thi h grey ve spaced. \ y fine SA nary Lon N CLAY	nly to thinl rry silty CL With very t ND or sar don Clay F FORMATI	y laminate AY. Fissu hin parting d silt (san Formation ON	ed fissure res are gr gs of grey d is fine) subdivisi	d enerally v or dark on A3.]	57
		57.00 - 58.5	;0	10	0 93	93						At 56.65m: silt At 57.15m: silt At 57.3m: fisst clean, very stit At 57.4m: 5mr	parting (0 o parting. ure. 10 degn f, unweathe n thick lamir	legree dip, be ee dip. Smoo red. nation of clays	tween lamina th, planar, slig	ttions). ghtly polishe	d, very tight,	
le	Diameter	Casing Dia	meter			Chise	lling		Inclin	ation a	and Orienta	ation			Drillin	n Flush		
Ba	se Diameter	r Depth Base D 9.80 11.70	Diameter 150 250 200	Depth To	p Depth	Base	Duration	Tool D	Depth Top De	auon a oth Bas	e Inclination	n Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (9
oject	Name: Lo	ondon Water Re	ecycling (_WR)		C	Client: Th	ames Water	Utilities I	Ltd			Date: 03/09/2024					
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catio	n: Londor	1				c	Contracto	or:					Co-ords: E515012.21	N1750	10.20			
oject	No. : GE2	21665				C	Crew Nar	me: AL					Drilling Equipment:					
В	orehole N	umber	Ho	е Туре	;			Level			Logged	Ву	Scale		Р	age Numb	ber	
	MT-019-	35	С	P+RC			2	2.49m AoD			TL		1:25		SI	heet 13 of	17	
ell	Water	Depth (m)	Type /FI	TCR	SCR	g RQD	Diamete Recover (SPT)	Depth (m)	Leve (m))	Legend		Stratum Des	scriptio	on			
		58.00 58.50 - 60.00	D				-100mm					Very st brownis closely grey sil [Prelim LOND0 58.1 to 58.2n Very tight, cle At 58.3m: pai	iff very thinly to thinly la sh grey very silty CLAY spaced. With very thin ty fine SAND or sand s inary London Clay Forn DN CLAY FORMATION Trifssure 30 degree dip. Smod iff, unweathered. m: fissure. 45 degree dip. Smod an, very stiff, unweathered. ting of sandy silt. Sand is fine.	aminate '. Fissur ı parting silt (sand mation s n mation s oth, planar ooth, undu	d fissured es are ge js of grey d is fine). subdivisio r, slight polis llating, slight	d enerally or dark on A3.] h, very tight, ty polished,		
	59.00 D 100 100 60.00 D 60.00 - 61.50 D				100	66						At 58.6m: 201 At 59.5m: par At 59.6m: 5m	mm thick layer of light greyish ting of dark grey silty fine SAN m thick layer of weak sandy cl	brown silty ND. laystone.	y CLAY.			
		60.00 60.00 - 61.50	D				-100mm			<u> </u>		At 60.05m: 5	r very closely fissured.	one.				
	60.40 - 60.80	D C	90	90	87						60.9 to 61.4n light grey silt. 61.0 to 61.2n	ting of light grey silt.	mall pocke	ets (up to 2m	nm diameter) h. verv tiaht	of		
		61.50 - 63.00)				-100mm					clean, very st 61.1 o 61.3m clean, very st 61.2 to 61.4n clean, very st From 61.2 to	iff, unweathered. : fissure. 70 degree dip. Smoo iff, unweathered. Parallel with : fissure. 70 degree dip. Smoo iff, unweathered. Parallel with 69.0m: becoming silty CLAY («	th, planar, fissure ab oth, planar fissure ab decreasing	slight polisi ove (30mm r, slight polis ove (50mm g silt conteni	h, very tight, spacing). h, very tight, spacing). t).		
		62.00	D	100	100	73						(At 62.1m: 10	nm thick layer of extremely we	əak light gı	rey silty clay	stone.		
										X	X 	At 62.55m: 10	Omm thick layer of extremely w	veak light e	grey silty cla	nystone.		
lole h Ba	Diameter se Diamete	Casing Diam	neter De	pth Top	Depth B	Chisel Base	ling Duration	Tool De	Incline Pth Top De	nation epth Ba	and Orienta	n Orientation	Depth Top Depth Base	Drilling	Flush Colour	Min (%)	N	
		9.80	150 250							0							<u> </u>	

AGS

3)

Project	Name: Lo	ndon Wate	r Recy	cling (L	WR)		C	Client: Th	ames Wa	ter Utilitie	es Ltd			Date: 03	/09/2024				
ocatio	n: London						C	Contracto	or:					Co-ords:	: E515012	.21 N1750	010.20		
Project	No. : GE2	1665					C	Crew Nar	ne: AL					Drilling E	Equipment	:			
B	orehole Nu	umber		Hole	е Туре	;			Level	_		Logged I	Ву		Scale		F	age Numb	er
	MI-019-	35 Denti	h			orin		erter) (2.49m Ao Dentl			IL			1:25		S	heet 14 of	1/
Nell	Water	(m)		/FI	TCR	SCR	RQD	Diame Recovi (SPT	(m)	(r	n)	Legend		S	tratum D	Descripti	ion		
		63.00 63.00 - 64) 4.50	D				-100mm					Very sti brownis closely grey sil [Prelimi LONDC 62.7 to 62.85; clean, very sti 63.5 to 63.7m clean, very sti	iff very thi sh grey ve spaced. I ty fine SA inary Lon- DN CLAY m: fissure. 90 fiff, unweathe i: light grey s	nly to thinl ery silty CL With very t ND or san don Clay F FORMATI D degree dip. red.	y laminate AY. Fissu hin partin d silt (sar Formation ON Smooth, plan Smooth, plan	ed fissure res are g gs of grey d is fine). subdivisi nar, polished, 50 mm apart ar, polished,	d enerally v or dark on A3.] very tight, very tight,	63
		64.00 64.50 - 60	6.00	D	93	93	66	-100mm					At 64.45m: ta 64.5 to 65.5m	bular silty cla 1: core distur	aystone nodul bed by pressu	e. 5 mm thick remeter test.	x, 20 x 30 mr	n.	64
					93	53	53						At 65.3m: coa layer (20mm t 	arse gravel-s thick). mm thick laye	ized claystone ar of weak ligh	e nodule. Pos	ssibly part of rrey silty clay	a claystone stone.	65
		66.00 66.00 - 6) 7.50	D	97	83	66	-100mm	100mm				63.5 to 63.7m _very stiff, unw _At 66.6m: 100	n: fissure. 90 reathered. Omm thick cla) degree dip. S aystone (whol	Smooth, plan. e core diame	ar, dull, very ster).	tight, clean,	66
		67.00 67.00 - 6) 7.40	D C									<u> At 66.9m: 20r</u>	nm thick clay	vstone.				67
Hole	Diameter	Casing I	Diamete	er	1		L Chisel	ling		l Ir	clinatior	and Orienta	ation			Drillin	g Flush		
epth Ba	se Diameter	Depth Base 9.80 11.70	Diame 150 250 200	ter De	oth Top	Depth	Base	Duration	Tool	Depth Top	Depth B	ase Inclination	n Orientation	Depth Top	Depth Base	Туре	Colour	Min (%)	Max (%

oject	Name: Lo	ndon Water	Recyc	ling (L	WR)		C	Client: Th	ames Wa	ter Utilitie	es Ltd			Date: 03/0	9/2024				
ocatio	n: London						0	Contracto	r:					Co-ords: E	515012.	21 N1750	010.20		
oject	No. : GE2	1665					(Crew Nar	ne: AL					Drilling Eq	uipment:				
Bo	orehole Nu	ımber		Hole	е Туре	;			Level			Logged	Ву		Scale		P	age Numb	er
	MT-019-3	35		CF T	P+RC			2: ≣≥	2.49m Aol	D .	<u> </u>	TL			1:25		S	heet 15 of	17
/ell	Water	Deptr (m)	ו	/FI	TCR	SCR	g RQD	Diamete Recove (SPT)	Deptr (m)	1 Le	n)	Legend		Str	atum D	escripti	ion		
		67.50 - 69 68.00	9.00	D	100	100	47	-100mm					Very stif brownis closely : grey silt [Prelimin LONDO 67.8 to 67.9m: clean, very stif At 68.1m: 100, diameter. [At 68.4m: 20m 67.8 to 67.9m: clean, very stif	ff very thinly h grey very spaced. Wit y fine SAN nary Londo IN CLAY F(fissure. 50 de f, unweathered m thick clayste fissure. 60 de f, unweathered	y to thinly y silty CL ith very th D or same on Clay F <u>ORMATIO</u> <u>ORMATIO</u> <u>Gree dip. Sr</u> <u>d</u> . <u>one (extrem</u> <u>gree dip. Sr</u> <u>d</u> .	/ laminate AY. Fissu nin parting d silt (sar ormation DN nooth, plana to moderate ely weak). V mooth, plana	ed fissure res are ge gs of grey di s fine). subdivisi ar, slight polis ar, polished, v ar, polished, v ar, polished, v vly strong). W Vhole core di ar, slight polis	d enerally or or dark on A3.] th, very tight, very tight, vhole core iameter. th, very tight,	68
		69.00 69.00 - 7() 50	D				-100mm	69.00	-46	6.51		68.6 to 68.8m: clean, very stif	fissure. 90 de ff, unweathered om thick clayste ff to extrem	ngree dip. Sr d. one (very we nely weak	nooth, plana eak). Whole very thin	ar, polished, v core diamete	very tight, er. ted	- 69
		05.00 - 70	5.00		80	80	53						fissured to silty (subdivis LONDO (4t 68.4m: 100) 69.5 to 69.9m: very stiff, unwe	brownish g CLAY. [Preli sion A3.] IN CLAY F(mm thick clays fissure. 90 de eathered.	grey to gi iminary L ORMATIO <u>stosne. Who</u> gree dip. Sr	reyish bro ondon C DN le core diam nooth, plana	own slight lay Forma neter. ar, dull, very t	ly silty ation ight, clean,	
		70.00		80 80 D			53												70
		70.50 - 72	. 72.00					-100mm	70.50	-48	3.01		Very stif	ff to extrem Sand is fine minated, au nary Londo N CLAY F(ment of fossilis	ely weak In place nd mostly on Clay F ORMATIO Sed wood.	t brownisi es faintly t appears ormation ON	h grey sar thinly to v s structure subdivisio	ndy silty ery eless. on A2.]	_
		71.00 D 100 73			73	20						71.5 to 71.6m:	very closely fi	issured.				71	
	72.00 - 73.50			-100mm	72.00	-49	9.51	× × - × - × - × - × - × - × - × - ×	NO REC	COVERY					- 72				
					<u> </u>					72.0 to 73.5m:	core lost (CR	41).				_			
Hole oth Bas	Diameter e Diameter	Casing Depth Base	Diamete Diamet	r er Dej	oth Top	Depth I	Chisel Base	ling Duration	Tool	Ir Depth Top	Depth	on and Orient Base Inclinati	ation Orientation	Depth Top	Depth Base	Drillin Type	g Flush Colour	Min (%)	Max ('
		9.80 11.70	150 250 200																

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ect Nam	e: London Wate	er Recy	cling (L	WR)		С	lient: Th	ames Water	r Utilities L	.td			Date: 03/	/09/2024				
ation: Lo	ndon					С	Contracto	r:					Co-ords:	E515012	.21 N175	010.20		
ect No. :	: GE21665					С	rew Nan	ne: AL					Drilling E	quipment	:			
Boreho	ble Number		Hol	е Туре	;			Level			Logged I	Ву		Scale		F	Page Numb	er
MI-	-019-35	h	Ci Type		orin	a	22 	2.49m AoD			IL			1:25		S	heet 16 of	1/
ell Wa	ater (m)		/FI	TCR	SCR	RQD	Diame Recov (SPT	(m)	(m)	" L	egend		St	tratum D	Descript	ion		
												NO REC	COVERY					
				0	0	0	400	70 50	510									7
	73.50 - 7	4.25		0	0	0	TUUMM	73.50	-51.0			Very stif CLAY. S thinly lau [Prelimin LONDO 73.5 to 74.25m	ff to extre Gand is fin minated, nary Lond <u>N CLAY I</u> <u>n: core dropp</u>	mely weal ne. In plac and mosti don Clay F FORMATI bed, recovere	k brownis es faintly ly appears Formation ON d in CR43 (fi	h grey sai thinly to v s structure a subdivisi	ndy silty ery eless. on A2.] 75.0m).	7
	74.25 - 7	5.00	P	200	100	100	100mm					74.8 to 75.9m:	very sandy,	with thin lens	ses of light g	rey silty very	sandy CLAY.	_
	75.00 - 7	6.50	D	100	100	100	— 100mm					-						
	76.00	8.00	D				100mm	75.90	-53.4			Very stif brownis partings [Prelimir LONDO 76.0 to 76.2m: clean, very stif	ff to extrem h grey sil 2. Partings nary Lond N CLAY I fissure. 70 of ff, unweather	mely weal ty CLAY w s spaced a don Clay F FORMATI degree dip. S red.	k very thir vith occas at betwee Formation ON imooth, plane	nly lamina sional light n 50 and ı subdivisi ar, slight polis	ted : grey silt 150 mm. on A2.] sh, very tight,	7
ole Diam	eter Casing	Diamete	.r	Chiselling		Inclin			ation			Drillin	ng Flush					
Base Di	iameter Depth Base	Diame 150	ter De	pth Top	Depth I	Base	Duration	Tool D	epth Top De	pth Bas	e Inclination	n Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max
	9.80 11.70	250 200																

roject	Name: Lo	ndon Water Red	cycling (I	_WR)		C	Client: Th	ames Water	r Utilities Lt	d	Date: 03/09/2024
ocatio	n: London					(Contracto	or:			Co-ords: E515012.21 N175010.20
Project	No. : GE2	1665				C	Crew Nar	ne: AL			Drilling Equipment:
B	orehole Nu	umber	Ho	е Туре	•			Level		Logged	By Scale Page Number
	MT-019-	35	с 	P+RC			22 ≣ ≧	2.49m AoD		TL	1:25 Sheet 17 of 17
Well	Water	Depth (m)	/FI	TCR	SCR	g RQD	Diamete Recove (SPT)	Depth (m)	(m)	Legend	Stratum Description
				100	100	100					Very stiff to extremely weak very thinly laminated brownish grey silty CLAY with occasional light grey silt partings. Partings spaced at between 50 and 150 mm. [Preliminary London Clay Formation subdivision A2.] LONDON CLAY FORMATION
	78.00 - 79.50 D 100 100					100	-100mm				78.3 to 79.6m: sandy. Sand is fine.
		79.50 - 81.00 80.00 D					-100mm	79.60 80.10	-57.11 -57.61		Very stiff greyish brown silty sandy CLAY with occasional shell fossils up to 15mm diameter. Gradational boundary with layer above. HARWICH FORMATION
				100	100	30	_	81.00	-58.51		End of Borehole at 81.000m
Hole Diameter		Casing Diam Depth Base Dia 9.80 1 11.70 2	eter De 50 50 00	pth Top	Depth I	Chisel	ling Duration	Tool D	Inclina epth Top Dep	tion and Orienta th Base Inclinatio	ttion Drilling Flush n Orientation Depth Top Depth Base Type Colour Min (%) N

		Unit 7	, Danw	orth Farm					Borehole N	0.
		Hurst BN6 9	pierpoii 9GL	nt		Bo	reho	ole Log	MT-022-	35
Geo-E	nvironn	nentalwww.	gesl.ne	t			1	•	Sheet 1 of 1	15
Projec	t Name:	Londor	n Water I	Recycling (LWR)	Project No. GE21665		Co-ords:	516137E - 174805N	Hole Type CP+RC	;
Locati	on:	Londo	n		Energy Rat Driller's Initia	tio (%): al: SM	Level:	7.80	Scale 1:25	
Client:		Thame	es Water	Utilities Ltd	Rig	Туре:	-Dates:	09/10/2024		у У ТІ
Mall	Water	Samp	le and I	n Situ Testing	Depth	Level	Logond	Stratum Description	10011007	
vveii	Strikes	Depth (m)	Туре	Results	(m)	(m)		Stratum Description		
		0.30 0.30 0.30	B ES PID	PID=0.0ppm	0.70	7 10		Grass overlying dark brown gravelly ver with some rootlets and occasional roots tile, occasional black charred fragments clinker) and rare glass. MADE GROUND	y sandy CLAY 1-10mm, some (potentially	
		0.80	В		0.70	7.10		Dense orangish brown gravelly clayey S CLAY. Sand is fine. Gravel is fine to coa	SAND/very sandy rse sub angular	-
		0.80 0.80	PID	PID=0.0ppm				TIINT. KEMPTON PARK GRAVEL		1 -
		1.20 1.20 1.20 - 1.65 1.20 1.20	B ES D SPT PID	N=31 (3,5/5,5,7,1 PID=0.0ppm	4)	6 25		1.2 to 1.65m: SPT encountered tree root.		
		1.70 - 2.00	В			0.20		Dense to very dense orangish brown S/ GRAVEL. Sand is fine to coarse. Grave sub angular flint with some flint cobbles KEMPTON PARK GRAVEL	AND and I is fine to coarse	-
		2.00 2.00 2.00	ES CPT PID	N=31 (3,4/6,7,8,1 PID=0.0ppm	0)					2 -
		3.00 3.00 3.00 3.00	B ES CPT PID	N=50 (5,11/50 fo 270mm) PID=0.0ppm	r					3
	▼	4.00 4.00 4.00 4.00	B ES CPT PID	N=35 (3,4/7,7,7,1 PID=0.0ppm	4)					4
		5.00 5.00	B ES							5 -
	Casing	Water S	trikes (mbgl)	Chiselling (mbg	^{gl)} Remark	(S				<u> </u>
Diamet	er Depti	h (m) Depth Strik 4.70	e Rose t 4.70	o Depth from Dep	Cased to 1	10.40m bgl. D sam	ples are from SF	PT.		
									AGS	5

		Unit 7	, Danw	orth Farm					Borehole N	lo.
	7	Hurstp BN6 9	oierpoir GL	nt		Bo	reh	ole Log	MT-022-	-35
Geo-E	Invironn	nentalwww.g	gesl.ne	t				•	Sheet 2 of	15
Projec	ct Name:	London	Water F	Recycling (LWR)	Project No. GE21665		Co-ords:	516137E - 174805N	Hole Type CP+RC	e
		l andan			Energy Ratio	o (%):		7.00	Scale	
Locati	on:	London	1		Driller's Initial:	SM	Levei:	7.80	1:25	
Client:		Thame	s Water	Utilities Ltd	Rig Ty	/pe:	Dates:	09/10/2024		у / ті
		Samp	lo ond lr		D				KOD+KOD/	
Well	Strikes	Dopth (m)		Posulte	(m)	(m)	Legend	Stratum Description		
		5.00	CPT	N=29 (3,7/7,7,7,8	3)			Dense to very dense orangish brown SA	ND and	
		5.00	PID	PID=0.0ppm				GRAVEL. Sand is fine to coarse. Gravel sub angular flint with some flint cobbles.	is fine to coarse	-
								KEMPTON PARK GRAVEL		-
										-
										-
		6.00	в							6 -
		6.00	ES	N=18 (2 3/4 4 5 F	5)			6.0 to 7.0m: medium dense.		
		6.00	PID	PID=0.0ppm	,,					-
										-
		7.00	в							7 -
		7.00	ES CPT	N=4 (1 1/1 1 1 1)			7.0 to 8.0m. becoming very loose.		
		7.00	PID	PID=0.0ppm	,					
										-
										-
										-
										-
										-
		8.00	В					·]		8 -
		8.00 8.00	ES CPT	N=3 (1,0/1,0,1,1)					
		8.00	PID	PID=0.0ppm						
										-
										-
										-
							2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
										-
		9.00	B					Firm brown eilty CLAX with some eronge	atainad aand	9 -
		9.00	SPT	N=14 (2,3/3,3,4,4	ł)			lenses. Sand is fine. [Preliminary Londo	n Clay	
		9.00		PID=0.0ppm	9.30	-1.50		LONDON CLAY FORMATION		
					9.40	-1.60	× × ×	Firm dark grey silty CLAY. [Preliminary L Formation subdivision C1.]	ondon Clay	
								LONDON CLAY FORMATION	l fossils.	\ -
		9,70 - 10 15	_{UT}	Ublow=8	9 70	-1.90		Recovered as fine to coarse gravel and	cobble sized	
		0.10 - 10.10		Recovery =0%	0.10	1.00		subdivision C1.]	mauon	-
					9.90	-2.10		Stiff dark grey silty CLAY. [Preliminary Lo	ondon Clay	
		10.00 10.00	B ES					Formation subdivision C1.] LONDON CLAY FORMATION		10 -
		10.00	PID	PID=0.0ppm						1
Diame	Casing ter Dept	Water St h (m) Depth Strike	rikes (mbgl) Rose to	Chiselling (mbg Depth from Dep	th to					•
		4.70	4.70		Cased to 10.	40m bgl. D sam	iples are from Sl	РІ.		
									AUN	

	Unit 7, Danworth Farm Hurstpierpoint												Borehole N	0.
	T		Hurstp BN6 90	ierpoi GL	nt					Bo	reh	ole Log	MT-022-	35
Geo-E	nviron	nenta	lwww.g	esl.ne	et						1	•	Sheet 3 of 1	15
Projec	t Name:		London	Water I	Recy	cling	(LWR) Pro	ject No. 21665		Co-ords:	516137E - 174805N	Hole Type CP+RC	9
Locati	on:		London					Er	nergy Ratio	(%):	Level:	7.80	Scale	
								Dri	ler's Initial: Rig Tyr	SM be:			1:25	v
Client:			Thames	s Water	Utilit	ies Lt	d		14917		Dates:	09/10/2024	KOD+KOD /	, TL
Well	Water		Sample	e and I	n Sit	u Tes	ting		Depth	Level	Legend	Stratum Description		
	Suikes	De	pth (m)	Туре		Re	esults		(11)	(11)	× ^×	Stiff dark grev silty CLAY. [Preliminary L	ondon Clav	
											×_×_×	Formation subdivision C1.] LONDON CLAY FORMATION		
											<u>x </u>			
		18:5	8 - 19:95 0.50	D SPT	N	=21 (2	2,3/4,5	,5,7)			× ×			
									10.70	-2.90	xx	Stiff to very stiff very thinly laminated y	erv closely to	
											×× ×	closely fissured greyish brown very silt [Preliminary London Clay Formation su	y CLAY. Jbdivision C1.1	
		1	11.00	D							×× ×	LONDON CLAY FORMATION 10.9 to 11.0m: fissure. 85 degree dip. Smooth, planar, s	lightly polished, very	11 -
												tight, clean, very stiff, unweathered.		
					87	60	47				xx	11.2 to 11.25m: fissure. 85 degree dip. Smooth, planar, tight, clean, very stiff, unweathered.	slightly polished, very	
											××	11.4 to 11.45m: cluster of parallel impersistent fissures a	at 10 to 20mm spacing.	
											××_ ×	11.4 to 11.45m; fissure. 75 degree dip. Smooth, planar, tight, clean, very stiff, unweathered.	slightly polished, very	-
										××	tight, clean, very stiff, unweathered. Conjugate with fiss 11.55 to 11.6m: fissure. 80 degree dip. Smooth, planar, s	ure at 11.55m. slightly polished, very		
												tight, clean, very stiff, unweathered. Conjugate with fiss	ure at 11.5m.	
		12.00	D		-		100mm			xx	tight, clean, very stiff, unweathered. 11.9 to 12.0m: fissure. 20 degree dip. Smooth, planar, s	slightly polished, very	12 -	
		0 - 13.50								× <u>×</u> ×	tight, clean, very stiff, unweathered. Dips in opposite dii same depth. At 12.0m: two fissures spaced 19mm apart. 80 degree	rection to other fissure at dip. Smooth, planar,		
											××	slightly polished, very tight, clean, very stiff, unweathere 12.05 to 12.15m: fissure. 80 degree dip. Smooth, plana tight clean, very stiff, unweathered. Conjugate with fiss	ed. r, slightly polished, very ure at 11 55m	
											××^`: ××	At 12.25m: medium gravel-sized patches of dark grey s gravel-sized nodule of pyritised claystone. 30 x 30 x 10	andy clay. Also: coarse mm.	
									12.60	-4.80		12.35 to 12.4m: fissure. 80 degree dip. Smooth, planar, tight, clean, very stiff, unweathered. 12.4 to 12.55m: fissure. 80 degree dip. Smooth, planar,	slightly polished, very slightly polished, very	
					100	100	60				xx	light, clean, very stiff, unweathered. Dips in opposite div 12.35m. At 12.5m: fossil shell (bivalve). Orientated vertically. Ap	rection to fissure at prox 25mm diameter.	
											<u>xx</u> x	Very stiff very thinly laminated closely to brown silty slightly sandy CLAY. Sand	fissured greyish is fine.	
		1	13.00	D							×_^_×	Laminations often indistinct. [Prelimina Formation subdivision B2.]	ry London Clay	13 -
											××^ 	LONDON CLAY FORMATION 12.6 to 12.75m: fissure. 80 degree dip. Smooth, planar,	slightly polished, very	
											××	12.6 to 13.5m: reducing sand content, becoming silty to 12.8 to 12.9m: fissure 90 degree dip. Smooth, planar, s	very silty CLAY. slightly polished, very	
		13.5	0 - 15.00					100mm			x	- fight, clean, very stift, unweathered. Terminates against - At 12.95m: parting of dark grey sandy silt. Sand is fine. - 12.95 to 13.15m: fissure. 85 degree dip. Smooth, plana	r, slightly polished, very	-
											xx	tight, clean, very stiff, unweathered. 13.15 to 13.45m: fissure. 85 degree dip. Smooth, plana tight, clean, very stiff, unweathered.	r, slightly polished, very	
											×	13.7 to 13.9m: fissure. 80 degree dip. Smooth, planar, s tight, clean, very stiff, unweathered.	slightly polished, very	
											××^``		- 11-16-16	
		1	14.00	D							<u></u>	light, clean, very stiff, unweathered. kt 14.0m: parting of dark grey silt.	siightiy polished, very	14 -
					100	93	93				x	14.1 to 14.2m: slightly sandy. Sand is fine.		
											xx	14.3 to 14.6m: fissure. 90 degree dip. Smooth, planar, s tight, clean, very stiff, unweathered.	slightly polished, very	
														-
											××	1 14.6 to 14.7m: subhorizontal fissures spaced at 10 to 4 dip. Smooth. planar. slightly polished, very tight, clean.	0mm. 10 to 20 degree verv stiff. unweathered.	
												14.7 to 14.8m: fissure. 80 degree dip. Smooth, planar, s tight, clean, very stiff, unweathered. 14.75 to 15.0m: fissure. 80 degree dip. Smooth, planar.	slightly polished, very	
			15.00					(22)			xx	tight, clean, very stiff, unweathered. Dips in opposite dir 14.7m.	rection to fissure at	4.5
		15.0	0 - 16.50					(32) 100mm			xx	At 15.1m; coarse gravel-sized fossilised wood fragment	t	15 -
]			Type/F	ITCF	SCR	RQD							1
Diame	Casing ter Dep	:h (m)	Water Str Depth Strike	ikes (mbgl) Rose 1) to	Ch Depth f	iselling rom	(mbgl) Depth to	Remarks	Om høl Dicami	nles are from S	PT		
			4.70	4.70	ן מ				Caseu 10 10.4	on ogi. D Sam	orea are nonn Si		AGS	
														-

Project Na	me: Lo	ndon Water F	Recycling (L	WR)		С	Client: Th	ames Water	Utilities Lt	d			Date: 09/10/2024				
_ocation: L	ondon					С	Contracto	or:					Co-ords: E516137.	00 N1748	805.00		
Project No	. : GE2	1665				С	Crew Na	ne: SM					Drilling Equipment:				
Borel	hole Nu	mber	Hole	э Туре	;			Level		Log	gged l	Ву	Scale		P	age Numb	er
М	T-022-3	35	CF	+RC			7	7.80m AoD		KOD	+KOD	D / TL	1:25		S	Sheet 4 of 1	5
Well W	/ater	Depth (m)	Type /FI	C TCR	SCR	g RQD	Diamete Recover (SPT)	Depth (m)	Level (m)	Lege	end		Stratum D	escripti	on		
		16.00 16.50 - 18.0 17.00	D 00	93	86	60	-100mm					Very stiff brown si Laminat Formatiu LONDO 15.5 to 15.9m: 1ight clean, ver tight clean, ver	Very thinly lamina ilty slightly sandy C ions often indistinc on subdivision B2.] N CLAY FORMATI- fissure. 90 degree dip. S ry stift, unweathered. fissure. 90 degree dip. S ry stift, unweathered. Sirghty sandy. Sand is fi sure. 10 degree dip. Smoot f. unweathered. sil worm burrow, 3mm ler re. 10 degree dip. Smoot f. unweathered. sil worm burrow, 3mm ler re. 10 degree dip. Smoot f. unweathered. sil worm burrow, 3mm ler is ure. 10 degree dip. Smoot f. unweathered. f. unweathered. f. store. 60 degree dip. Smoot f. unweathered. rissure. 50 degree dip. Smoot f. unweathered. f. fissure. 50 degree dip. Smoot f. unweathered. f. fissure. 60 degree dip. Smoot ry stift, unweathered. rissure. 80 degree dip. Smoot ry stift, unweathered. rissure. 80 degree dip. Smoot ry stift, unweathered. ifssure. 80 degree dip. Smoot ry stift, unweathered. ifssure. 80 degree dip. Smoot athered. its fissure. 80 degree dip. Smoot athered. its degree dip. Smoot the stift, unweathered. ifssure. 80 degree dip. Smoot athered. its fissure. 80 degree dip. Smoot athered. its fissure. 80 degree dip. Smoot its fissure. 80 degree dip. Smoot it worm burrows. it worm burrow. it worm burrow. it worm burrow.	ted closel; LAY. Sand LAY. Sand I. [Prelimit ON mooth, plana mooth, plana ark grey silty ne. th, planar, sil gifth. h, planar, sil mooth, plana Smooth, plana grees (clocku nish grey cla curving grad	y fissured d is fine. nary Lond r, slightly pol fine sand. ightly polishe fine sand. ightly polishe fits 5.85m. nent, vertical ightly polishe r, slightly polishe r, slightly pol y at base to tight, clean, ar, slightly pol ar, slightly pol ar, dull, very r, dull, very t, dull, very tystone.	greyish Jon Clay lished, very iished, very iished, very iished, very tight, d, very tight, ly aligned. ed, very tight, ly aligned. ed, very tight, lished, very 30 degree dip very stiff, oblished, very tight, clean, ore axis) to	16 -
		18.00 18.00 - 19.5	50 D				-100mm					deptn. Smooth J17.6 to 17.7m: -tight, clean, ve. 17.8 to 18.0m: very stiff, unwe 18.1 to 18.3m: Smooth, undul 18.15 to 18.45; slightly polishe 18.5 to 18.8m: tight, clean, ve.	, slightly polished, very ti fissure. 70 degree dip. S ry stiff, unweathered. fissure. 80 degree dip. S eathered. fissure. 80 degree dip. c tating, dull, very tight, clea m: very closely fissured. I d, very tight, clean, very s fissure. 90 degree dip. S ry stiff, unweathered. Ten	gnt, clean, ve mooth, plana mooth, plana mooth, plana rvey stiff, sissures are s titff, unweath mooth, plana minates again	ry stift, unwin r, slightly pol r, dull, very t gree dip ov. unweatherec smooth, plan ered. r, slightly pol nst laminatio	eathered. ished, very ight, clean, er top 40mm. I. ar, dull to ished, very ns.	18 -
		19.00 19.50 - 21.0	00	100	100	66	-100mm					19.1 to 19.4m: tight, clean, ve At 19.25m: me mm. 19.4 to 19.5m: core diameter. 19.4 to 20.6m: TAt 19.85m: me	fissure. 85 degree dip. S ry stiff, unweathered. dium gravel-sized pyritise 100mm thick moderately fissures closely to mediu dium gravel-sized patch o	mooth, undul Id fossil wood strong brown m spaced. o <u>f dark grey fr</u>	lating, slightly d fragment. S nish grey cla ine sand.	y polished, ver 10 x 15 x 10 ystone, whole	y

Remarks

Cased to 10.40m bgl. D samples are from SPT.



Geo	Environ	mental							R	ota	ry	C C	ore	Log				
Project	Name: Lo	ondon Wate	r Recycl	ing (LV	VR)		С	lient: Th	ames Water	Utilities L	td			Date: 09/10/2024				
Locatio	n: London	l					С	Contracto	or:					Co-ords: E516137.00	N1748	05.00		
Project	No. : GE2	21665					C	Crew Nar	ne: SM					Drilling Equipment:				
Bo	orehole Nu	umber		Hole	Туре	;			Level			Logged	Ву	Scale			Page Numbe	ər
	MT-022-	35		CP+	+RC			7 ≂≥	7.80m AoD		к .	OD+KOE) / TL	1:25			Sheet 5 of 1	5
Well	Water	(m)	h I	ype /FI	TCR	SCR	g RQD	Diamete Recove (SPT)	Depth (m)	Leve (m)	' L	egend		Stratum Des	scriptio	on		
		20.00)	D	100	100	93				×' ×' ×' ×' ×' ×' ×'		Very sti brown s Lamina Format <u>LONDC</u> 19.9 to 20.0m <i>light, clean, vu</i> 41.20.4m; fiss clean, very sti 20.55 to 20.6 very stif, unw 20.6 to 20.9m	iff very thinly laminated silty slightly sandy CLA titions often indistinct. [I ion subdivision B2.] DN CLAY FORMATION : fissure. 45 degree dip. Smot ery stiff, unweathered. Terristing, unweathered. Sm: fissure. 90 degree dip. Smo tiff, unweathered. Sm: fissure. 90 degree dip. Sm reathered. :: very closely fissured. Sm: fissure. 75 degree dip. Sm ery stiff, unweathered.	d closely YY. Sanc Prelimin J oth, undula tates again oth, planar planar, slig mooth, plan	y fissure d is fine. hary Lor ating, sligh st laminat r, slightly p htty polish har, dull, v nar, slightl	ed greyish Indon Clay Intly polished, very Ionished, very Ied, very tight, ery tight, clean, y polished, very	, , , , , , , , , , , , , , , , , , ,
		21.00 21.00 - 22.50 D 93 93 22.00 D 22.50 - 24.00						-100mm					20.9 to 20.95/ tight, clean, vi lean, very sti 21.2 to 21.4m light, clean, vi 21.2 to 21.4m light, clean, vi 21.2 to 21.5m light, clean, vi At 21.25: fissi clean, very sti 21.5 to 21.75m stiff, unweather At 21.7 m: two smooth, undu 21.5 loear, very sti 21.5 to 21.75m; fis clean, very sti 21.75m; fis	In the second seco	ooth, plana anar, slight oth, planar oth, planar oth, planar slanar, sligh ooth, planar olanar, dull pacing. Fi an, very s hed, very t planar, sli siste directi planar, sli siste directi	ar, slightly tly polished r, slightly p r, slightly polishe ar, slightly polishe ar, slightly polis ison to pair ightly polis ion to pair	polished, very d, very tight, polished, very polished, very ed, very tight, polished, very t, clean, very t5 degree dip, thered. Fissure n, very stiff, whed, very tight, of fissures at hed, very tight, er fissure at	21
		22.50 - 24 23.00	4.00	D	100	100	73	-100mm			רארוארוארוארוארוארוארוארוארואר		21.75m. 21.8 to 21.957 tight, clean, vi 21.8 to 21.957 tight, clean, vi 22.0 to 27.0m 22.1 to 22.2m 22.25 to 22.4 tight, clean, vi At 22.75m: fo 23.0 to 23.1m very stiff, unw At 23.1: fissu clean, very sti At 23.1m: coa 23.2 to 23.257 tight, clean, vi	m: fissure. 90 degree dip. Smc ery stiff, unweathered. Sm: fissure. 90 degree dip. Sn ery stiff, unweathered. Termini 1: becoming very silly. 1: very closely fissured. Sm: fissure. 80 degree dip. Sn ery stiff, unweathered. ssil worm burrow.	ooth, plana nooth, plar ates again nooth, plar oth, undula anar, slight ragment. ooth, plana	ar, slightly nar, slightl nat laminat nar, slightl ating, dull, tly polished ar, slightly	polished, very y polished, very ions. y polished, very very tight, clean, d, very tight, polished, very	23 -
		24.00 24.00 - 2:) 5.50	D -				- (50) 100mm					23.6 to 23.9m	1: very closely fissured.				24
Hole Depth Bas	Diameter	Casing I	Diameter	r Dept	h Ton	Depth I	Chisell _{Base}	ling Duration			ation a	nd Orienta	ation Orientation	Depth Top Depth Base	Drilling	Flush Colour	Min (%)	Max (%)
Deput Das	Diamete		Diamete		., iob	Берш	Jase	JurauUII			Put DAS				туре	Colour	17111 (70)	191GX (70)
Deres	rko																	
Cased 1	1KS to 10.40m	bgl. D sam	ples are	from S	SPT.													



- Environmental	

Geo	-Environ	mental				<u></u>						D 1 00	140/0004					
Project	Name: Lo	ondon Water Rec	ycling (L	.vvr)				names vva	iter Utiliti	es Lta			Date: 05	5540407				
Locatio	n: Londor						Contracto	or:					Co-ords	: E516137	.00 N174	805.00		
Project	No. : GE2	21665				0	Crew Na	me: SM					Drilling E	Equipment	:			
Bo	orehole Ni MT-022-	umber 35	Hole	е Туре + ВС	Э		-		h		Logge	d By ד / חו		Scale			Page Numb	er 15
Well	Water	Depth	Туре		Corin	g	ameter scovery SPT)	Dept	n Le	evel	Legend		S	Stratum E	Descript	ion	Sheet 0 Of	
		25.00	D	90	53	53	-100mm			,		Very s brown Lamina LOND LAT to 24.7 to 24.7 24.9 to 25.0 tight, clean, At 25.1 m: fis clean, very s Lat, to 24.9 to 24.9 to 24.9 to 24.9 to 24.9 tight, clean, Max 25.1 m: fis clean, very s day 25.0 m fis	tiff very thi silty slight ations ofter tion subdi on CLAY on: fissure. 70 on cry stiff, unweather m: fissure. 70 very stiff, unw sure. 0 degre tiff, unweather sure. 25 degr	inly lamina inly sandy C vision B2.] FORMATI 0 degree dip. degree dip. S reathered. Ter 0 degree dip. Smooth read. of degree dip. Smooth read.	ted close CLAY. Sar t. [Prelimi ON Smooth, plan minates aga Smooth, plan sets other fis , planar, slig th planar, slig	ly fissure nd is fine. inary Lon dulating, dull ar, slightly p inst laminati nar, slightly p issure at sam intly polished inhtly polished	d greyish don Clay very tight, blished, very ons. oblished, very e depth by d, very tight, ed very tight,	25 -
		26.00	D	93	66	53						Z A L 23.571: 18 Clean, very s At 25.671: fo: 25.9 to 26.07 - - - - - - - - - - - - -	sure, 25 deg fit, unweathers ssil shell frag n: fissure, 90 very stiff, unw n: several pa nar, slightly pu n: core dama	red in Smoo ment, 20mm d degree dip. S veathered. rallel fissures olished, very t iged by failed .	n, planar, su diameter. imooth, plan at 20 to 50m ght, clean, v core liner.	gnuy polisne ar, slightly pi im spacing. rery stiff, unv	a, very tignt, blished, very 30 degree dip. veathered.	26
	27	27.00 - 28.50 27.10 28.00	D	100	100	100	-100mm	27.00	-1	9.20		Very s fissure Londo LOND 27.2 to 27.3 blana, slight 27.2 to 27.3 zz blan, very s z7.25 to 27.3 very stiff, uni 27.8 to 28.2r clean, very s	tiff very thi d greyish n Clay Fou ON CLAY m: fissure. 90 ly polished, v n: fissure. 10 b5m: fissure. weathered. D n: fissure. 85 tiff, unweather tiff, unweather	inly lamina brown ver rmation su FORMATI degree dip cu every tight, clea degree dip. S ored.	ted very o y silty CL bolivision ON irving to 80 on, very stiff, mooth, plan. Smooth, plan.	closely to AY. [Prelin B1.] degrees with unweathered ar, polished, fissure at 2 ar, polished,	closely minary depth. Smooth t. very tight, ry tight, clean, 7.2m. very tight,	- 27 -
		28.50 - 30.00 29.00	D	93	60	40	-100mm						n: fissure. 85 very stiff, unw 3m: fissure. 8	degree dip. S reathered. 5 degree dip.	mooth, plan Smooth, plan	ar, slightly p nar, slightly j	olished, very polished, very	29 —
											<u>×x</u>	29.3 to 29.3	om: very close	ely fissured.				
Hole	Diameter	Casing Diamo	ter l			Chice	lling			nclinati	n and Orior	ntation			Drillin	na Flueb		
Depth Bas	se Diameter	r Depth Base Diame	eter De	oth Top	Depth	Base	Duration	Tool	Depth Top	Depth	Base Inclina	tion Orientation	n Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)
Rema	irks	hgl D samples a		CDT														



Attern Landon Conductor: Consolute ES16137.00 N1748065.00 ext No.: CE217665 Crew Name: SM Dolling Explorment. Bit Water (In) Depth Type (Crem Res. M) Dolling Explorment. Bit Water (In) Type (Crem Res. M) Lovel (Crem Res. M) Lovel (Crem Res. M) Stratum Description Bit Water (In) Type (Crem Res. M) Depth (Crem Res. M) Lovel (Crem Res. M) Lovel (Crem Res. M) Stratum Description 30.00 - 31.50 D In In<	oject	Name: Lo	ndon Water F	Recyclin	g (LW	/R)		С	lient: Th	ames Wa	ter Utilitie	es Ltd			Date: 09/10/2024				
edt Nu:: GE27665 Crew Name: SM Drilling Equipment: Prage Number Minited Page Number Minited Page Number (m) Scale Prage Number Minited Page Number (m) Minited Depth (m) Type (m) Correct Field Too Acob Correct (m) Looged By (m) Scale Prage Number (m) a) Water Depth (m) Type (m) Correct Field Correct (m) Looged By (m) Stratum Description a) 0 Too Acob (m) Looged (m) Stratum Description Very stiff very fully schedule and poly (m) Very stiff very fully schedule and poly (m) 0 0 0 100mm 100mm Very stiff very fully schedule and poly (m) Very stiff very fully schedule and poly (m) 31.00 D 100 100 100 100 100 100 31.00 D 100 100 100 100 100 100 100mm 100mm<	catio	n: London						С	ontracto	or:					Co-ords: E516137.0	00 N1748	805.00		
Bortholic Number MI-022-35 Hole Type CP+HeC Level CP+HeC Logest By NOP-COVID Scale 128 Page Number Signer 700 all MI-022-35 CP+HeC Cam Ago TCA Depth TCA Corrent FF Image Number Signer 700 Total NoP- Corrent FF Corrent Signer 700 Stratum Description all MI-022-35 NoP- FF Total NoP- FF Corrent FF Image Number FF Total NoP- FF	oject	No. : GE2	1665					С	rew Nar	me: SM					Drilling Equipment:				
MI d22/55 CD+HC John ADD KOD-RUJ 11, 125 Shell / all 15 III Water Cering Iiii Book Cering Iiii Book Stratum Description III Trip Coring Iiii Book Cering Iiii Book Stratum Description III Trip Coring Iiii Book Depth Trip Trip Trip Trip III IIII Coring Iiiii Book Coring Iiiii Book Stratum Description IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	В	orehole Nu	Imber		Hole -	Туре			_	Level			Logged I	By	Scale		F	Page Numb	er
III Water China Stratum Decomption Stratum Decomption 310.00 0 100 100 100 100 100 <td></td> <td>MT-022-</td> <td>35 Depth</td> <td>Tv</td> <td>ne</td> <td>кс Сс</td> <td>orino</td> <td>a</td> <td>ery T)</td> <td>Depth</td> <td>n le</td> <td>evel</td> <td>KOD+KOD</td> <td>) / IL</td> <td>1:25</td> <td></td> <td></td> <td>sneet / of</td> <td>15</td>		MT-022-	35 Depth	Tv	ne	кс Сс	orino	a	ery T)	Depth	n le	evel	KOD+KOD) / IL	1:25			sneet / of	15
30.00 D 100 <td>ell</td> <td>Water</td> <td>(m)</td> <td>/F</td> <td>FI 7</td> <td>FCR :</td> <td>SCR</td> <td>RQD</td> <td>Diame Recov (SP</td> <td>(m)</td> <td>(</td> <td>m)</td> <td>Legend</td> <td></td> <td>Stratum D</td> <td>escripti</td> <td>on</td> <td></td> <td></td>	ell	Water	(m)	/F	FI 7	FCR :	SCR	RQD	Diame Recov (SP	(m)	(m)	Legend		Stratum D	escripti	on		
Image: Second participation of the			30.00 30.00 - 31.5	50	D –				100mm					Very stu fissured London LONDC 29.5 to 29.65 clean, very stu At 29.6m: fiss clean, very stu From 30.1m: 1 30.3 to 30.4m At 30.35m: fis clean, very stu 30.3 to 30.4m At 30.35m: fis	Iff very thinly laminat d greyish brown very n Clay Formation sub DN CLAY FORMATIO m: fissure. 70 degree dip. Sure. 20 degree dip. Smootl iff, unweathered. Immations indistinct.	ed very c v silty CLA vdivision E DN imooth, planar, slig h, planar, slig nooth, planar, slig enooth, planar, slig nooth, planar, slig	losely to Y. [Prelin 31.] ar, slightly polishe ghtly polishe r, slightly polish ightly polish diameter.	closely ninary olished, very d, very tight, d, very tight, lished, very ed, very tight,	3
31.50 - 33.00 D 100mm Image: state in the state in th			31.00	[5	100	100	100						At 30.6m: fiss blean, very st dt 30.65m: fis blean, very st blean, very st dt 31.15m: fis clean, very st	ure. 40 degree dip. Smooti iff, unweathered. ssure. 40 degree dip. Smoo iff, unweathered. Parallel w m: fissure. 90 degree dip. S ery stiff, unweathered. ssure. 80 degree dip. Smoo iff, unweathered.	th, planar, slig th, planar, slig th fissure at Smooth, plan th, planar, sl	ghtly polishe lightly polish pove. ar, slightly p lightly polish	d, very tight, ed, very tight, olished, very ed, very tight,	;
33.00 33.00 33.00 34.50 D Image: solution of the solution of			31.50 - 33.0 32.00	00	5	84	84	84	100mm					At 31.8m: fiss <u>clean, very sti</u> <u>tight, clean, vi</u> <u>32.0 to 32.9m</u> <u>very stiff, unw</u>	leaium gravel-sized tossil w sure. 30 degree dip. Smooth lift, unweathered. 1: fissure. 80 degree dip. Sn ery stift, unweathered. 1: fissure. 90 degree dip. Sn ery stift, unweathered. 1: fissure. 80 degree dip. Sn veathered.	ood tragmer h, planar, slig nooth, plana nooth, plana nooth, undul	nt. ghtly polishe r, slightly po r, slightly po lating, dull, v	d, very tight, lished, very lished, very rery tight, cleai	7,
33.00 - 34.30 Image: state of the set of t			33.00	-0 [5 –				100mm					At 32.6m: fiss very stiff, unw At 32.75m: fo	sure. 20 degree dip. Smooth veathered. ssil wood fragment. 10mm	h, planar, pol length, 5mm	lished, very : n diameter.	tight, clean,	
34.00 D			JJU - 34.€			100	86	27											
Image:			34.00	[2								××						
	ole	Diameter	Casing Dia	ameter Diametor	Denth		C	Chisell	ing	Tool	Depth Ten	nclination	and Orienta	ation	Depth Ton Depth Boss	Drilling	g Flush	Min (%)	
	ва	Diameter	Depth Base [Diaineter	Depth	пор Ц	νερτη Β	oase	Duration	1001	Depth Top	Depth B	ase inclination	Urientation		туре	Colour	IVIIN (%)	M

t Name: Lo	ondon Water Rec	yclina (L	WR)		C	Client: Th	ames Water	Utilities Ltd		Date: 09/10/2024	
on: London	1	,	• •/			Contracto	r:			Co-ords: E516137.00 N174805.00	
t No. : GE2	21665				c	Crew Nan	ne: SM			Drilling Equipment:	
orehole Nu	umber	Hole	е Туре	;			Level		Logged	By Scale Page Num	ber
MT-022-	-35	CF	P+RC			7	.80m AoD	_	KOD+KOI	D / TL 1:25 Sheet 8 of	15
Water	Depth (m)	Type /FI	TCR	orin	g RQD	Diamete Recover (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
	34.50 - 36.00 35.00	D	93	93	80	-100mm	34.50	-26.70		Very stiff very thinly laminated very closely to closely fissured greyish brown very silty CLAY. [Preliminary London Clay Formation subdivision B1.] LONDON CLAY FORMATION 34.2 to 34.4m: fissure. 80 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 34.4 to 34.5m: fissure. 80 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. Terminates against laminations. Very stiff to extremely weak silty slightly sandy CLAY. In places slightly very thinly laminated. Sand is fine. [Preliminary London Clay subdivision A3.] LONDON CLAY FORMATION 34.6 to 34.9m: fissure. 85 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered.	_/
	36.00 36.00 - 37.50	D				-100mm				At 35.6m: fissure. 30 degree dip. Smooth, planar, slightly polished, very tight, lolean, very stiff, unweathered. At 35.85m: tabular coarse gravel-sized lignite fragment.	
	37.00	D	100	87	47					36.3 to 36.4m: extremely weak, slightly sandy (sand is fine), light brownish gre From 36.4m: with occasional partings of light brownish grey sandy silt. Sand is fine.	у. ;
	07.00 07.50										
· · ·	37.20 - 37.50	C				-100mm				At 37.2m: parting of light grey silty fine sand.	
	38.00	D	93	93	47					From 37.5m: decreasing sand content, becoming silty clay below 40.0m. At 37.5m: parting of light grey silty fine sand. At 37.8m: 20mm thick layer of light brownish grey slightly sandy silty clay, with rare fossil shell fragments. At 37.5m: parting of dark grey silty fine sand. At 38.0m: fissure. 45 degree dip. Smooth, planar, slightly polished, very tight, plean, very stiff to extremely weak, unweathered. 38.0 to 38.1m: fissure. 50 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff to extremely weak, unweathered. It fissure at 38.0m.	on
Diameter	Casing Diamet	ter			Chisel	ling		Inclinati	xx	tation Drilling Flush	
se Diamete	r Depth Base Diam	eter Dep	oth Top	Depth	Base	Duration	Tool De	pth Top Depth	Base Inclination	on Urrentation Depth Top Depth Base Type Colour Min (%)	-



Geo	-Environ	mental									Lai	y			LO	9				
Project	Name: Lo	ndon Water	r Recyc	ling (L	WR)		C	lient: Th	ames Wa	ter Utili	ties Ltd				Date: 09	/10/2024				
Locatio	n: London						C	Contracto	r:						Co-ords:	E516137	.00 N1748	805.00		
Project	No. : GE2	1665					C	rew Nar	ne: SM						Drilling E	quipment				
Во	orehole Nu MT-022-	ımber 35		Hole CP	e Type P+RC)		7	Level 7.80m AoD)		Lo KOD	ogged E)+KOD	By) / TL		Scale 1:25		P	age Numb heet 9 of 1	er 5
Well	Water	Depth (m)	n	Type /FI	C	orin	g ROD	biameter tecovery (SPT)	Depth (m)	ו L	_evel (m)	Leg	jend		S	tratum D	Descripti	ion		
Well	Water	35 Deptt (m) 39.00 39.00 - 40 40.00 40.50 - 42 41.00 42.00 - 43 42.00 42.00 - 43 42.00 42.00 - 43	2.00 2.90	CF Type /FI D D D C	93 93 93	93 93 93	9 RQD 66 93 93	Toomma -100mm	.80m AoE Depth (m)	D N L	_evel (m)	KOD Leg Image: Second	+KOD Jend	/ TL Very stit In place [Prelimi LONDC 4t 38.9m: 200 9arting of dari 38.9 to 39.0m 138.9m: 200 139.2to 39.0m 139.2to 39.0m 139.2to 39.0m 139.2to 39.7m 139.2to 39.7m 141.30.7m 141.30.7m 141.05m: pan 4t 40.5m: pan 4t 40.5m: pan 4t 40.5m: pan 4t 41.2m; pan 4t 43.3m; pan 4t 43.3m; pan 4t 43.3m; pan 4t 43.5m; fiss 2lean, very stif 4t 43.5m; fiss 2lean, very stif 4t 35.5m; fiss 2lean, very stif 4t 35.6m; fiss 2lean, very stif 4t 35.6m; fiss 2lean, very stif 4t 35.6m; fiss 2lean, very stif 4t 35.6m; fiss 2lean, very stif 38.0 to 38.1m; 4t 38.0m; fiss 2lean, very stif 38.0 to 38.1m; 38.0 to 38	S ff to extre s slightly nary Lono N CLAY m thick laye gry sitty, inweather m thick layer gry sitty, inweather m thick layer issure 30 py sitty, unweather m thick layer issure 30 any very sitty m thick layer issure 30 any very sitty, unweather m thick layer great lenses (ing of light g ing of light g issure 40 deg eathered. ing of light g issure. 40 deg eathered. issure. 40 deg eathered. ing of light f ins issure. 60 ff, unweather m thick layer y stiff, unwe very closely ure. 30 degraf f, unweather ing of dark g eathered. issure. 40 deg eathered. ing of dark g issure. 40 deg eathered. ing of dark g issure. 40 deg eathered. ing of light f ing of dark g issure. 40 deg eathered. ing of light f ing of dark g issure. 40 deg eathered. ing of dark g issure. 40 deg eathered. ing of light f ing of dark g eathered. ing of light f ing of dark g ing of light	1:25 tratum E Testim	Descripti k silty slig y laminate subdivision ON whish grey sil se. mooth, planar, slip y silty fine sa y silty fines sa y silt, somoth, plana sand.	sion htty sandy ed. Sand is n A3.] ghtly sandy sa ar, slightly sandy sa ar, slightly pol ghtly polished ilightly sandy ind. planar, slightly pol ghtly polished ar, slightly pol greyish brown ar, slightly pol greyish brown ar, slightly pol greyish brown ar, slightly pol ilightly polished, very ar, polished, very brown siltt hinly lamin ay Format ar, slightly pol ghtly polished ar, slightly pol ghtly sandy sa ghtly solished ar, slightly pol ar, slightly pol ar, slightly pol ghtly solished ar, slightly pol ar, slightly pol	CLAY. CLAY. s fine. illy clay, with ished, very d, very tight, silly clay. ty polished, very tight, ished, very rown silly fine ished, very rown silly CLAY. ished, very tight, clean, very tight, volished, very tight, clean, ery tight, clean, ished, very tight, clean, very tight, y slightly nated. ion ished, very d, very tight, ished, very tight, clean, ished, very tight, clean, the clean, th	5 39 40 41 42 43
		43.50 - 45	5.00					-100mm	43.50	-	35.70			parting of dari 38.9 to 39.0m tight, clean, ve At 39.0m: fiss clean, very sti At 39.15m: 20 At 39.2m: 2mm 39.2 to 39.55r 39.3 to 39.57m very tight, clea At 39.85m: 30 clavstone with	c grey sitty fir i fissure. 90 ary stiff, unwe ure. 75 degre ff, unweathe mm thick lay n thick partir n: extremely fissure. 85 fissure.	ne sand at ba degree dip. S eathered. ee dip. Smoor red. rer of light bro ng of dark gre to very close to very close to extremely rer of extremely parting of day	ise. mooth, planar, sli whish grey s y silty fine sa ly fissured. dip. Smooth, weak, unwea ely weak light	ar, slightly pol ghtly polished slightly sandy and. planar, slight thered. t greyish brow ne sand at ba	ished, very d, very tight, silty clay. tly polished, yn silty	43
			F																	- -
Hole	Diameter	Casing [L Diameter	r	I	(Chisell	ling			Inclinat	ion and	Orienta	ation		1-	Drillin	g Flush	1	
Depth Bas	se Diameter	Depth Base	Diamete	er Dep	oth Top	Depth E	Base	Duration	Tool	Depth To	op Deptr	Base I	nclinatior	n Orientation	Depth Top	Depth Base	туре	Colour	Min (%)	Max (%)
Rema Cased	rks to 10.40m	bgl. D sam	ples are	e from	SPT.														AG	S

o-Environmental	

Geo	-Environ	mental																	
Project	Name: Lo	ondon Water Red	ycling (L	WR)		C	Client: Th	ames Wa	ter Utilit	ies Ltd				Date: 09	/10/2024				
Locatio	n: Londor	l				C	Contracto	or:						Co-ords:	E516137	.00 N1748	305.00		
Project	No. : GE2	21665				C	Crew Nar	ne: SM						Drilling E	Equipment	:			
Bo	orehole N	umber	Hol	е Туре	е			Level			Lo	gged E	Ву		Scale		P	age Numb	er
	MT-022-	35	CF	P+RC			7	'.80m Ao[<u>с</u>		KOD	+KOD	/ TL		1:25		S	heet 10 of	15
Well	Water	Depth (m)	Type /FI	TCR	Sorin	g RQD	Diameter Recovery (SPT)	Deptł (m)	h L	evel (m)	Leg	end		S	tratum D	Descripti	on		
		44.00	D	100	100	80							Very sti sandy (Sand is subdiviis LONDC 40.1 to 40.15r tight, clean, va At 40.35m; par At 40.5m; par At 40.5m; par At 40.5m; par At 40.5m; par	ff to extre CLAY. In p fine. [Pre sion A3.] DN CLAY n: fissure. 90 ery stiff, unw ring of dark ting of dark ing of light g eral lenses (Emely weal blaces sligt eliminary L FORMATI 0 degree dip. reathered. grey silty fine grey silty fine grey silty fine grey silty fine grey silt. 20 to 30mm c	k greyish l htly very tl ondon Cla ON Smooth, plan sand. sand. diameter) of li	brown silt hinly lamin ay Format har, slightly po ght greyish b	y slightly nated. ion plished, very prown silty fine	44
		45.00	D				-100mm						At 41.2m; pan At 41.25m; pa 41.3 to 41.4m ight, clean, vo At 41.65m; pa 41.7 to 41.8m tight, clean, vo At 40.5m; pan At 41.95m; fis clean, very sti At 41.97m; 20	Ing of light <u>c</u> rting of light <u>c</u> rting of light : fissure. 60 my stiff, unw m thick lays rting of light : fissure. 40 ery stiff, unw sure. 40 deg sure. 40 deg mm thick lay	greyish brown greyish brown degree dip. S reathered. greyish brown degree dip. S reathered. grey silty fine s gree dip. Smoo ored. nse of extremen	slit. n silt. wooth, plana y weak light g n silt. mooth, plana sand. oth, planar, si ely weak light	r, slightly pol greyish brown r, slightly pol lightly polishe t greyish broi	ished, very १ silty CLAY. ïshed, very ३d, very tight, wn silty CLAY.	45
		45.00 - 46.50		93	93	73							42.0 to 42.3m 42.15 to 42.2 yr ight, clean, vi 4t 42.95m: fis very stiff, unw At 43.3m: par 43.4 to 43.4m clean, very sti 41.43.3m: sol 41.44.0m: 30n silty clay. At 44.06m: sh At 44.05m.10 claystone.	closely fiss or: fissure. (ery stiff, unw sure. 40 deg eathered. ting of light g ing of dark g fissure. 60 of dark g fissure. 60 nm thick laye ell fragment mm thick laye	ured. 60 degree dip. eathered. gree dip. Smou greyish brown grey silty fine e degree dip. S red. er of very stiff (bivalve, 5mn yer of extrem.	. Smooth, planar, p silt. sand. mooth, plana to extremely n diameter). ely weak light	inar, slightly j olished, very Ir, polished, v weak light gr t greyish broo	volished, very tight, clean, 'ery tight, 'eyish brown wn silty	
		46.00	D										At 44.35m: fis very stiff, unw 44.45 to 45.55 tight, clean, vo At 44.5m: 10n 44.6 to 44.75m: 10n 44.6 to 44.75m; very very stiff, unw 45.25 to 45.4m tight, clean, vo At 45.55m: 10 At 45.55m: 10	sure. 70 deg eathered. 5m fissure. 9 ery stiff, unw nm thick laye nn fissure. 8 eathered. n thick lense nn fissure. 8 ery stiff, unw mm thick lei	gree dip. Smoo 90 degree dip. eathered. er of very stiff 5 degree dip. e of light greyi 5 degree dip. eathered. yer of very stiff ose of extrem	oth, planar, p Smooth, pla light greyish i Smooth, plan sh brown silty Smooth, plan ff light greyish ely weak light	olished, very Inar, slightly (Iorown silty ci Iar, dull, very V clay. Iar, slightly po In brown silty t grevish brov	tight, clean, polished, very 'ay. tight, clean, plished, very clay. wn silty	46
		46.50 - 48.00 47.00	D	93	93	60	-100mm						claystone. At 45.5 m: sev At 46.05m: 10 claystone. At 46.1m: foss At 46.2m: 10n claystone. At 46.6m: sev laminations. 6 very stiff, unw At 46.8m: 30n diameter, redu 46.9 to 47.1m tight, clean, va tight, clean, va At 47.3m: 10n claystone.	eral partings mm thick lear sil worm burn mm thick lear and the second second second second second second second second mm thick lear mm thick lears	s of light grey : nse of extreme row, 1mm diar se of extreme fissures. All 3 b. Smooth, pla er of weak ligh m thickness a c closely fissur degree dip. S reathered. se of extremel	sjit. sjit. ely weak light meter. y weak light i y mar slightly p nt greyish bro tt outside of c red. mooth, plana	t greyish brow greyish brow terminating g polished, ven wn claystone pore. rr, slightly pol greyish brow	vn silty n silty gainst / tight, clean, ?. Whole core "ished, very n silty	47
		48.00 48.00 - 49.50	D				-100mm						At 47.9m: para 48.1 to 48.3m tight, clean, vo At 48.3m: 10n claystone. Ext	ing of light g fissure. 90 ery stiff, unw nm thick lens remely close	grey silt. degree dip. S eathered. se of extremei ely fisured for	mooth, plana y weak light (20mm above	r, slightly pol greyish brow and below o	ïshed, very n silty claystone.	48
Hole	Diameter	Casing Diame	eter	. –	(Chisel	ling			Inclinatio	on and	Orienta	ition			Drilling	g Flush		
Depth Bas	Diamete	r Depth Base Diar	neter De	pth Top	Depth I	Base	Duration	Iool	Depth To	p Depth	Base Ir	nclinatior	n Orientation	Depth Top	Depth Base	Туре	Colour	Min (%)	Max (%)
Rema	rks																		



Cased to 10.40m bgl. D samples are from SPT.

Project	Name: Lo	ndon Water	Recycli	ing (LV	NR)		C	lient: Th	ames Wate	r Utilities	s Ltd			Date: 09	/10/2024				
ocatio	n: London	l					c	Contracto	r:					Co-ords:	E516137	.00 N174	805.00		
Project	No. : GE2	21665					c	rew Nar	ne: SM					Drilling E	quipment	:			
B	orehole Nu	umber		Hole	Туре	•		-	Level			Logged	l By		Scale		P	age Numb	ber
	IVI I -022-	Jo Depth	Т	ivne	+RC C	orin	a	ery	.80m AoD	le\	/el	KUD+KU			1:25		5	neet 11 of	15
Nell	Water	(m)		/FI	TCR	SCR	RQD	Diame Recov (SP1	(m)	(m	1)	Legend		S	tratum D	Descript	ion		
		49.00	00	D	100	100	86	100mm					 Very sf sandy Sand ii: subdiv LOND0 At 48.4m: pa At 48.4m: fisional clean, very s At 48.3m: 10 claystone. 	iff to extree CLAY. In p s fine. [Pre ision A3.] ON CLAY <i>dring of light g</i> <i>sure.</i> 45 degr <i>iff to extreme</i>	mely weal places sligi eliminary L FORMATI revish brown ee dip. Smoot y weak, unw iy weak, unw	k greyish htly very f ondon Cl ON silt. th, planar, sl eathered.	brown silt hinly lami ay Formal ghtly polished greyish brow	y slightly nated. iion d, very tight, n silty	49
		50.00		D	100	100	93						49.6 to 50.3r clean, very s clean, very s	n: fissure. 85 iff to extreme ssil wood frag Omm thick m Osely fisured f	to 90 degree /y weak, unw ment 	dip. Smooth eathered. ng light grey ve top of cla	, planar, dull, ish brown cla iystone.	very tight, ystone. Core	50 ·
		51.00 51.00 - 52.	50	D	100	100	100	-100mm	51.10	-43.	30		Extrem CLAY. Iamina LONDO	nely weak Sand is fin tions. [Pre ision A2]. ON CLAY	greyish br. he. In plac. liminary L FORMATI	own sligh es with ve ondon Cl ON ment. 90 x 4	tly sandy v ery thin ay Format 5 x 10mm.	very silty ion	51
		52.00		D	100	100	100				-								52
		52.50 - 54.	00					100mm			-	× · · · · × · · · · × · · · · × ·	At 52.45m: 1 glauconitic. At 52.6m: 5n At 52.75m: 5 At 52.75m: 5 At 52.8m: pa	Omm thick lay mm thick layer mm thick laye rting of light b medium grav	er of greenisi containing m or containing r rown fine san	h grey silty s edium sand- medium sand d. ment of fossi	andy clay. Po sized shell fr d-sized shell i lised wood.	ssibly agments. fragments.	50
		53.00		U							-	× <u>×</u> ×	At 53.0m: se	veral verticall	y aligned foss of greyish bro	il worm burn own silty sar	ows. nd clay. Sand	is fine.	53
									1										
Hole epth Ba	Diameter se Diamete	Casing Di r Depth Base	ameter Diameter	· Dept	th Top	(Depth E	Chisell Base	ing Duration	Tool D	Inc Depth Top	clination Depth B	and Orien	tation on Orientation	n Depth Top	Depth Base	Drillin Type	g Flush Colour	Min (%)	Max (%
					_														

oject	Name: Lo	ndon Water	Recycli	ng (LV	VR)		C	Client: Th	ames Wa	ter Utilitie	s Ltd			Date: 09	/10/2024				_
atio	n: London						C	Contracto	or:					Co-ords:	E516137.	00 N1748	305.00		
ject	No. : GE2	1665					C	Crew Nar	me: SM					Drilling E	Equipment:				
В	orehole Nu	ımber		Hole	Туре	•			Level			Logged E	Ву		Scale		F	age Numb	ber
	MT-022-	35		CP	+RC			7	7.80m AoE)		KOD+KOD	/ TL		1:25		S	heet 12 of	15
ell	Water	Depth (m)	ין ו 	ype /FI	C TCR	SCR	g RQD	Diamete Recover (SPT)	Deptł (m)	ו Le (n	vel n)	Legend		S	tratum D	escripti	on		
		54.00		D	100	100	100	-100mm					Extreme CLAY. S laminati subdivis LONDC 53.4 to 54.0m	ely weak Sand is fir ions. [Pre sion A2]. ON CLAY	greyish bro ne. In place liminary Lo FORMATI ional very thin	own slight es with ve ondon Cla ON lenses of lig	ily sandy ry thin ay Format ht grey silt.	very silty ion	
		54.00 - 55	5.50	U	100	100	93	-1001111	54.60	-46			54.0 to 54.6m At 54.15m: no 54.4 to 54.45r 54.55 to 54.6r Extreme very silt subdivis	: sandy with bbly pyritise n: greenish I n: greenish I ely weak y CLAY. [sion A2].	no structure. d fossil, possi brown, possibi greyish bro Preliminar	Sandy is fine bly wood frag ly glauconitic by glauconitic DWN Very y London	gment. 40 x 3 Clay For	^{20 x 10mm.} inated mation	
		55.00		D				100			<u> 1</u> 4 1 4 1 4 1 4		54.8 to 55.2m	: greenish bi	rown to greeni	ish grey, pos	sibly glaucor	nitic.	
		55.50 - 57	.00	D	87	87	73	-100mm	56.20	-48			Extrem CLAY. S Formati LONDC 56.2 to 56.3m	ely weak Sand is fir on subdiv DN CLAY : greenish gr	brownish g ne. [Prelim vision A2]. FORMATI rey, possibly g	grey silty s inary Lon ON lauconitic.	slightly sa don Clay	ndy	
		56.80		D				100	56.80	-49	00.		NO RE	COVERY					
		57.00 - 58	.50		100	100	40	TUUMM	57.30	-49 -49	.50		Extreme CLAY. S Formati LONDC S ^{57.1} to 57.3m very stiff, unw Extreme Very silf subdivis LONDC At 57.5m: med At 57.65m: med	ely weak Sand is fir on subdiv N CLAY : fissure. 90 eathered. ely weak y CLAY. [sion A2]. N CLAY dium gravel- edium gravel	brownish of he. [Prelim vision A2]. FORMATII degree dip. R greyish bro Preliminar FORMATII sized rounded I-sized rounded	grey silty s inary Lon ON ough, planar own very y London ON claystone n d claystone	slightly sa don Clay , <i>matt, very t</i> thinly lam Clay For odule. nodule.	ndy <i>ight, clean,</i> inated mation	
ole	Diameter	Casina Г	Diameter	-			Chisel	ling		In	clination	and Orienta	ition			Drillin	g Flush		
Ba	se Diameter	Depth Base	Diameter	Dept	th Top	Depth I	Base	Duration	Tool	Depth Top	Depth Ba	ase Inclination	n Orientation	Depth Top	Depth Base	Туре	Colour	Min (%)	N

ation: London ect No. : GE216 Borehole Num MT-022-35 ill Water	565 ber Depth (m) 58.00 58.50 - 60.00 59.00	Hold CF Type /FI D	⇒ Typee P+RC C TCR	SCR	g RQD	Contracto Crew Nar 7 Laso 100mm	r: ne: SM Level .80m AoD Depth (m) 58.20 58.55	Level (m) -50.40 -50.75	Logged E KOD+KOD Legend	Co-ords: E516137.00 N174805.00 Drilling Equipment: By Scale Y TL 1:25 Stratum Description Extremely weak greyish brown very thinly laminated very silty CLAY. [Preliminary London Clay Formation subdivision A2]. LONDON CLAY FORMATION Extremely weak brownish grey silty slightly sandy CLAY. Sand is fine. [Preliminary London Clay Formation subdivision A2]. LONDON CLAY FORMATION	er 15 5
ect No. : GE216 Borehole Num MT-022-35 III Water	565 iber Depth (m) 58.00 58.50 - 60.00 59.00	Hold CF /FI D	⇒ Type P+RC TCR	SCR	g RQD	7 a)amelo (Sb1) -100mm	ne: SM Level :80m AoD Depth (m) 58.20 58.55	-50.40		Drilling Equipment: By Scale Page Numt / TL 1:25 Sheet 13 of Stratum Description Extremely weak greyish brown very thinly laminated very silty CLAY. [Preliminary London Clay Formation subdivision A2]. LONDON CLAY FORMATION Extremely weak brownish grey silty slightly sandy CLAY. Sand is fine. [Preliminary London Clay Formation subdivision A2]. LONDON CLAY FORMATION Extremely weak brownish grey silty slightly sandy CLAY. Sand is fine. [Preliminary London Clay Formation subdivision A2].	9er 15 5
Borehole Num MT-022-35 ell Water	ber 5 Depth (m) 58.00 58.50 - 60.00	Hold CF Type /FI D	Type P+RC C TCR 100	SCR	g RQD	2 Diameter Recovery (SPT)	Level .80m AoD Depth (m) 58.20 58.55	-50.40	Logged E KOD+KOD	By Scale Page Numt / TL 1:25 Sheet 13 of Stratum Description Extremely weak greyish brown very thinly laminated very silty CLAY. [Preliminary London Clay Formation subdivision A2]. LONDON CLAY FORMATION Extremely weak brownish grey silty slightly sandy CLAY. Sand is fine. [Preliminary London Clay Formation subdivision A2]. LONDON CLAY FORMATION Extremely weak brownish grey silty slightly sandy CLAY. Sand is fine. [Preliminary London Clay Formation subdivision A2].	9er 15 58
MT-022-35	5 Depth (m) 58.00 58.50 - 60.00 59.00	CF Type /FI D	100	SCR	g RQD	2 Diameter Recovery (SPT)	.80m AoD Depth (m) 58.20 58.55	-50.40	KOD+KOD	/ TL 1:25 Sheet 13 of Stratum Description Extremely weak greyish brown very thinly laminated very silty CLAY. [Preliminary London Clay Formation subdivision A2]. LONDON CLAY FORMATION Extremely weak brownish grey silty slightly sandy CLAY. Sand is fine. [Preliminary London Clay Formation subdivision A2]. LONDON CLAY FORMATION	<u>15</u> 58
Water	Deptn (m) 58.00 58.50 - 60.00	D	TCR 100	SCR	g RQD	-100mm	58.20	-50.40		Stratum Description Extremely weak greyish brown very thinly laminated very silty CLAY. [Preliminary London Clay Formation subdivision A2]. LONDON CLAY FORMATION Extremely weak brownish grey silty slightly sandy CLAY. Sand is fine. [Preliminary London Clay Formation subdivision A2]. LONDON CLAY FORMATION	5
	58.00 58.50 - 60.00 59.00	D	100			-100mm	58.20 58.55	-50.40 -50.75		Extremely weak greyish brown very thinly laminated very silty CLAY. [Preliminary London Clay Formation subdivision A2]. LONDON CLAY FORMATION Extremely weak brownish grey silty slightly sandy CLAY. Sand is fine. [Preliminary London Clay Formation subdivision A2]. LONDON CLAY FORMATION	5
	58.50 - 60.00 59.00	D	100			-100mm	58.20 58.55	-50.40		Extremely weak brownish grey silty slightly sandy CLAY. Sand is fine. [Preliminary London Clay Formation subdivision A2]. LONDON CLAY FORMATION	
	59.00	D	100				58.55	-50.75			
	59.00	D	100							Extremely weak greyish brown very thinly laminated very silty CLAY with rare very thin lenses of light grey silty fine sand and rare fossil shell fragments. [Preliminary London Clay Formation subdivision A2].	
			100							59.05 to 59.3m: fissure. 85 degree dip. Rough, planar, dull, very tight, clean, very stiff, unweathered.	ţ
				100	93		59.30	-51.50		Extremely weak brownish grey silty slightly sandy CLAY. Sand is fine. [Preliminary London Clay Formation subdivision A2]. LONDON CLAY FORMATION 59.4 to 59.5m: greenish brown and sandy, possibly glauconitic. Sand is fine.	
f	60.00 60.00 - 61.50	D				-100mm				59.8 to 59.98m: weak to moderately strong claystone.	
										<u>60.2 to 60.4m: silty to very silty, very thi</u> nly laminated.	
			93	93	73					At 60.5m: rounded medium gravel-sized claystone nodule. At 60.7m: shell fragment (bivalve). 60.75 to 60.95m: fissure. 90 degree dip. Rough, planar, matt, very tight, clean, very stiff, unweathered.	
	61.00	D								At 61.0m: shell fragment (bivalve)	
f	61.50 - 63.00					-100mm	61.50	-53.70		sandy ciay at top. Several black rounded medium tiint gravel at 61.45m, on to of claystone.	0
	CO 00									SAND. LONDON CLAY FORMATION	
	62.00		93	93						62.1 to 62.15m: lense of firm greenish grey very sandy CLAY. Sand is fine to medium.	
							62.60	-54.80		Firm to stiff greenish grey glauconitic very sandy CLAY. LONDON CLAY FORMATION	
ole Diameter	Casing Diamet	ier	I	(Chisel	ling		I Inclinat	ion and Orientat	tion Drilling Flush	
Base Diameter I	Depth Base Diam	eter De	oth Top	Depth E	Base	Duration	Tool De	pth Top Depth	Base Inclination	Orientation Depth Top Depth Base Type Colour Min (%)	M

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oject	Name: Lo	ndon Water Rec	ycling (L	WR)		C	Client: The	ames Water	Utilities Lte	b	Date: 09/10/2024
ocatio	n: London					C	Contracto	r:			Co-ords: E516137.00 N174805.00
oject	No. : GE2	1665				C	Crew Nan	ne: SM			Drilling Equipment:
В	orehole Nu	umber	Hole	е Туре	•		7				Scale Page Number
Vell	Water	Depth	Туре		orin	g	ameter covery SPT)	Depth	Level	Legend	Stratum Description
		62.70	D	TCR	SCR	RQD	Re S	62.70	-54.90		Firm to stiff greenish grey glauconitic very sandy
											CLAY. LONDON CLAY FORMATION NO RECOVERY.
		63.00 - 64.50		03	77	66	-100mm	63.00 63.20	-55.20		Stiff to very stiff thinly laminated greenish grey glauconitic sandy CLAY. LONDON CLAY FORMATION 63.15m: coarse gravel-sized fragment of lignite. Very stiff greenish grey glauconitic sandy CLAY with occasional coarse sand-sized to fine gravel- sizedpatches of light yellowish brown sandy silt (sand is fine). In places with faint thin laminations. LONDON CLAY FORMATION
		64.00	D	93		00					63.9m: three medium gravel-sized fragment of lignite. Tabular form, parallel th laminations. 64.0m: medium gravel-sized fragment of lignite. 64.1m: thick lamination of dark grey to black fine sand containing lignite.
		64.50 - 66.00					-100mm	64.55	-56.75		64.4m: medium gravel-sized fragment of lignite. 64.5m: fissure. 20 degree dip. Smooth, planar, polished, very tight, clean, ry stiff, unweathered. Very stiff to extremely weak extremely closely fissured brownish grey slightly silty CLAY. JAppears to be
		65.00	D	100	100	86		64.80	-57.00		London Clay Formation, unknown subdivision]. LONDON CLAY FORMATION 64.7m: cobble-sized nodule of light brown silty claystone. Very stiff to extremely weak very thinly laminated very closely fissured silty CLAY. Gradational boundary with layer below. [Appears to be London Clay Formation, unknown subdivision]. LONDON CLAY FORMATION 65.3m: fissure. 40 degree dip. Smooth, planar, polished, very tight, clean, ry stiff, unweathered. 65.4m: cohele sized place of limite (foscilised wood.
								65.50 65.90	-57.70 -58.10		Very stiff to extremely weak greyish brown silty slightly sandy CLAY. LONDON CLAY FORMATION 65.75m: 10mm thick piece of lignite.
		66.00 66.00 - 67.50	D				-100mm	66.10 66.20 66.30 66.45	-58.30 -58.40 -58.50 -58.65		yellowish brown and red silty CLAY. LAMBETH GROUP Extremely weak very thinly laminated very closely fissured greyish brown slightly silty CLAY. [Appears to be London Clay Formation, unknown subdivision]. LAMBETH GROUP Very stiff to extremely weak bluish grey mottled light vellowish brown and red silty CLAY
		67.00	D	100	100	100					LAMBETH GROUP Extremely weak very thinly laminated extremely closely fissured greyish brown slightly silty CLAY. [Appears to be London Clay Formation, unknown subdivision]. LAMBETH GROUP Very stiff to extremely weak slightly friable closely fissured multicoloured slightly silty CLAY. LAMBETH GROUP
					-					<u> </u>	
Hole	Diameter	Casing Diame	ter		L	Chisel	ling		Inclina	tion and Orientat	n Drilling Flush
.h Ba	se Diameter	Depth Base Diam	neter Dep	pth Top	Depth	Base	Duration	Tool De	epth Top Dep	th Base Inclination	Orientation Depth Top Depth Base Type Colour Min (%)



600	Environ	montal						R	ota	n	y C	ore	Log				
Project	Name: Lo	ndon Water	Recycling	(LWR)		C	Client: Th	names Water	⁻ Utilities I	Ltd			Date: 09/10/2024				
Locatio	n: London					C	Contracto	or:					Co-ords: E516137.00	0 N17480	5.00		
Project	No. : GE2	21665				C	Crew Na	me: SM					Drilling Equipment:				
Во	prehole Nu	umber	He	ole Typ	е			Level			Logged	Ву	Scale		I	Page Numbe	er
	MT-022-	35 Denth		P+RC	Corin		ery	7.80m AoD		<u>-</u>	KOD+KOE	D / TL	1:25		5	Sheet 15 of 1	5
Well	Water	(m)	/FI	TCR	SCR	RQD	Diame Recove (SPT	(m)	(m))	Legend		Stratum De	scriptio	n		
							_	67.50	-59.7	0		Very sti	iff to extremely weak s d multicoloured slightly	lightly fria	able clo \Y.	sely	-
													TH GROUP End of Borehole	e at 67.500)m		
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Hole Depth Bas	Diameter Be Diamete	Casing D	Diameter	lepth Ton	Depth	Chisel _{Base}	ling Duration	Tool Dr	Incline Incline	natior epth R	and Orient	ation on Orientation	Depth Top Depth Base	Drilling F	-lush Colour	Min (%)	Max (%)
	Jiamole											Shormanon		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- 21001	(70)	
Rema Cased t	rks to 10.40m	bgl. D sam	bles are fro	n SPT.		1										AG	S

		Unit 7,	, Danw	orth Farm					Borehole No.
	-	Hurstp BN6 9	oierpoir GL	nt		Bo	oreho	ole Log	MT-025-35
Geo	-Environn	nentalwww.g	jesl.ne	t	Duringth		1		Sheet 1 of 17
Proj	ect Name:	London	Water F	Recycling (LWR)	GE21665		Co-ords:	516954E - 173052N	CP+RC
	tion:	London			Energy Ratio	(%):		5.88	Scale
					Driller's Initial:		Level.	5.00	1:20
Clier	ıt:	Thame	s Water	Utilities Ltd	Rig Ty	pe:	Dates:	28/11/2024	Logged By
	Water	Samp	le and li	n Situ Testina	Dopth				
We	Strikes	Depth (m)		Results	(m)	(m)	Legend	Stratum Description	
		0.30 0.30 0.30 0.80 0.80 0.80 1.20 1.20 1.20 1.20 1.20 1.20	B ES PID B ES PID B ES D SPT PID	PID=0.2ppm PID=0.1ppm N=1 (1,0/0,1,0,0) PID=0.0ppm	0.20	5.68		Grass overlying MADE GROUND comp clayey slightly gravelly fine to medium S are fine flint and brick. Occasional cerar MADE GROUND MADE GROUND comprising brown slig slightly gravelly fine to coarse SAND. G flint, brick, concrete and ceramic. MADE GROUND	rising brown AND. Gravels nics. htly clayey ravels are fine
		2.00 2.00 - 2.45 2.00 - 2.45 2.00 2.00	ES B SPT PID	N=12 (1,2/2,2,3,5 PID=0.0ppm	5)	3.78		Medium dense yellowish grey gravelly f SAND. Gravels are fine to coarse angul flint. KEMPTON PARK GRAVEL	ine to coarse ar to subrounded
		3.00 3.00 - 3.45 3.00 3.00 4.00 4.00 - 4.45	ES D CPT PID ES B	N=10 (1,2/2,2,3,3 PID=0.0ppm	2.80	3.08		Medium dense yellowish/grey very sand subangular to subrounded flint GRAVEL KEMPTON PARK GRAVEL	dy fine to coarse 3
	Caring	Wotor Ct	rikes (mbal)	Chicolling (mb-	0 2 3				
Diar 1	neter Dept 50 6.	h (m) Depth Strike	Rose t	o Depth from Dep	bth to Hand dug :0.0	D to 1.2m. Cab	le Percussive: 1.2	2 to 6.5m. Rotary Core (Geobore-S): 6.5 to 62.25m.	
									AGS

		l	Jnit 7,	Danw	/orth	n Far	m						Borehole N	lo.
Unit 7. Danworth Farm Hurstpierpoint BN6 9GL Borehole Log Geo-Environmentalwww.gesl.net Project No. GE21665 Co-ords: 516954E - 173052N Project Name: London Energy Ratio (%): Dritler's Initial: Evel: 5.88 Location: London Energy Ratio (%): Dritler's Initial: Evel: 5.88 Client: Thames Water Utilities Ltd Rig Type: Dates: 28/11/2024 Dates: 28/11/2024 Well Weller Depth (m) 4.00 - 445 Type Results Dates: 128/11/2024 Veller Depth (m) 4.00 - 445 N=82/22.22 Alloc 4.45 Medium dense yellowishigrey very sardy Medium dense yellowishigrey very sardy 4.00 - 445 Veller Statistics Bit filminited grey is and silly CLAY. Example SAND, Grave and film Statistics Statistics 4.00 1.48 Statistics Statistics Statistics 5.00 S0.0 SPD N=16 (2.33, 4.4.5) Statistics Statistics 5.00 SD SPD N=16 (2.33, 4.4.5) Statistics Statistics 5.00 SD SPD N=16 (2.33, 4.4.5) Statistics Statistics 5.00		MT-025-	35											
Unit 7, Danworth Farm Hurstpierpoly Borechole Log MT Geo-Environmentalwww gesl net Project Name: Project No. (221665 Co-ords: 510854E - 173552N Project No. (211655 Location: London Emergy Ratio (%): Differs' Initiat. Lovel: 5.88 Location: London Rig Type: Differs' Initiat. Lovel: 5.88 Location: London Rig Type: Differs' Initiat. Lovel: 5.88 Location: Lordon Stratum Description Weil Weiter Stakes Sample and In Stu Testing 4.00 Project Name Lovel: Level: Legend Stratum Description 4.00 BPT Net (2.222.2.2) PID Level: Image: Stratum Constraint Stratum Stratu	Sheet 2 of 1	17												
Unit 7. Damworth Farm Hurspierpolicy Borehole Log MTTD Gee-Environmental www.gesl.net Project No. Environmental www.gesl.net Project No. Environmental www.gesl.net MTTD Project Name:			Hole Type	Э										
			CP+RC Scale											
Locati	on:	1	London					D	riller's Initial:	(70).	Level:	5.88	1:20	
Client:			Thame	s Water	l Itilit	ies I f	h		Rig Ty	pe:	-Dates:	28/11/2024	Logged By	у
	1		manie	5 Water	Ount					1	Duico.		JH / KOD / T	TL
Unit 7, Danworth Farm Hurstpierpoint BN6 9GL Project No. Geo-Environmental Wew, gesl.net Project Name: London Location: London Client: Thames Water Utilities Ltd Well Water Strikes Value Sample and In Situ Testing Depth (m) Vell Vater Strikes 0 SPT PID N=8 (2,2/2,2,2,2) PID Value 4.00 5.00 SPT SDU - 5.45 5.00 SPT SDU - 5.45 5.00 SPT SDU - 5.45 5.00 SPT SDU - 5.45 6.00 - 6.50 UT 6.00 - 6.50 UT 6.00 - 6.50 UT 6.00 - 7.50 6.50							Depth (m)	Level	Legend	Stratum Description				
•••••	OUIKES	Dept	h (m) - 4 45	Туре		Re	esults		4 10	1.78		Medium dense vellowish/grev verv sand	ty fine to coarse	
	•	4.	00	SPT	N	N=8 (2	,2/2,2	,2,2)				subangular to subrounded flint GRAVEL	/	
	•	ч.	00			110-	-0.0pp					Medium dense yellowish grey gravelly fi	ne to coarse	
	•								4 40	1.48		flint.	ar to subrounded	
Project Name: London Water Recy Location: London Client: Thames Water Utili Well Water Strikes Depth (m) Type 4.00 - 4.45 D 4.00 SPT M 4.00 SPT M 5.00 - 5.45 B 5.00 - 5.45 D 5.00 SPT N 5.00 SPT N 6.00 - 6.50 UT					1.10	1.40	×_×_×	Firm brown slightly sandy silty CLAY. Sa	ands are fine to	1 _				
	Project Name: .ocation: Slient: Well <u>Vater</u> Strikes De 4.0 5.0 5.0 5.0 6.0										××	medium. Occasional fine subangular flin LONDON CLAY FORMATION	ıt gravel.	
Unit 7. Darworth Farm Hurstpierpoint BNS 9GL Borehole Log Geo-Environmentalwww.gesl.net Project No. GE21665 Co-ords: 518954E - 173052N Project Name: London Energy Ratio (%): Differs Initiat: Level: 5.88 Location: London Energy Ratio (%): Differs Initiat: Level: 5.88 Client: Thames Water Utilities Ltd Rig Type: Dates: 28/11/2024 Weil Strikes Depth (m) Type Results Andum dense systemisting (M) Add of S Madum dense systemis														
											××		·/	/ -
							m Borehole Log MT LVR) Project No. GE21665 Co-ords: 518954E - 173052N F Energy Ratio (%): Dailer's Initial: Level: 5.88 J d Rig Type: Dates: 28/11/2024 L ding Deptite Initial: Level: 5.88 J ding Deptite Initial: Level: 5.88 J 222.2.2.2 0.0pm 4.40 1.78 Medium dense yellowishingrey very sandy line to a browned fine: subangular to subcurded fine: subangular to subcurded fine: subcurded fin							
		5.	00	ES	Darworth Farm erpoint bill Project No. (GE21665 Co-ords: 518954E - 173052N Vater Recycling (LWR) Project No. (GE21665 Co-ords: 518954E - 173052N Under Ubilities Ld Rig Type: Driller's Initial: Co-ords: 518954E - 173052N used In Situ Testing Optimers: Driller's Initial: Co-ords: 518954E - 173052N and In Situ Testing Optimers: Driller's Initial: Co-ords: 518954E - 173052N ymport Results Optimers: Driller's Initial: Co-ords: 518954E - 173052N ymport Results Optimers: Driller's Initial: Co-ords: Stratum Description Ymport Results 4.10 1.78 Midian inferte subnorbid programs and the inferte subnorbid program and the inferte subnor		5 —							
		5.00 5.00	- 5.45 - 5.45	B D			-							
		5. 5.	00 00	Darworth Farm iderpoint GL gest.net Borehole Log Water Recycling (LWR) Project No. GE21665 Co-ords: 516964E - 173052N Source State Control (State Con		-								
		Unit 7. Denworth Farm Hursbjerpoint BN 96L Borehole Log ironmentalvww.gesl.net Project No. GE21665 Co-ords: 516954E - 173052N ironmentalvww.gesl.net Project No. GE21665 Co-ords: 516954E - 173052N ironmentalvww.gesl.net Brance Water Recycling (LMR) Project No. GE21665 Co-ords: 516954E - 173052N ironmentalvww.gesl.net Brance Water Utilities Ltd Project No. GE21665 Co-ords: 516954E - 173052N ironmentalvww.gesl.net Brance Water Utilities Ltd Project No. GE21665 Co-ords: 516954E - 173052N ironmentalvww.gesl.net Brance Water Utilities Ltd Project No. GE21665 Co-ords: 516954E - 173052N ironmentalvww.gesl.net Brance Water Utilities Ltd Project No. GE21655 Co-ords: 516954E - 173052N ironmentalvww.gesl.net Brance Water Color Nation Structure Structu		-										
	roject Name: Lo coation: Lo ient: TH Vell Vater S Strikes Depth 4.00 4.00 5.00 - 5 5.00													
														-
	Water Strikes Sample and In Situ Testing Depth (m) Level (m) Leve													
		S Depth (m) Type Results (m) (m) </td <td></td> <td></td> <td></td>												
	5.00 ES 5.00 - 5.45 B 5.00 - 5.45 D 5.00 SPT 5.00 SPT 6.00 - 6.50 UT 6.00 - 7.50 0						×_×_×			-				
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Depth (m) Type Results (m) 4.00 4.00 4.00 91D N=8 (2,2/2,2,2,2) 4.10 4.00 4.00 SPT N=8 (2,2/2,2,2,2) 4.10 4.40 4.00 4.00 SPT N=8 (2,2/2,2,2,2) 4.10 4.40 4.00 S.00 SPT N=8 (2,2/3,4,4,5) 4.70 4.70 5.00 5.00 S.00 S.00 SPT N=16 (2,3/3,4,4,5) 91D=0.0ppm 5.00 5.00 S1.00 SPT N=16 (2,3/3,4,4,5) 91D=0.0ppm 6.00 - 6.50 UT 6.00 6.00 6.00 6.00 6.00 - 7.50 UT 6.00 6.50 7.10 6.50	-0.12	××			6 -									
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								1	0.50		××			-
		6.00	- 7.50						6.50	-0.62		Very stiff fissured greyish brown silty C LONDON CLAY FORMATION	LAY.	-
														-
					4.70 1.18 Image: Constraint of the standard gray is and sity CLAY, medium. Occasional fine standard gray is brown sity CLAY, medium. Occasional fine standard gray is brown sity CLAY, medium. Occasional fine standard gray is brown sity CLAY, medium. Occasional fine standard gray is brown sity CLAY. Medium. Charles and the standard gray is brown sity CLAY. Medium. Charles and the standard gray is brown sity CLAY. Medium. Charles and the standard gray is brown sity CLAY. Medium. Charles and the standard gray is brown sity CLAY. Medium. Stiff laminated gray is brown sity CLAY. No DON CLAY FORMATION 5 Image: Constraint of the standard gray is brown sity CLAY. Medium. Stiff laminated gray is brown. Sity CLAY. Medium. Stiff laminated fissure. Stiff laminated fissure. Standard. Up of the standard. Dps in opported is. Smooth, planar. Standard. Medium. Standard. Or Standard. Jaminated laminated gray staff. Interstened dis. Smooth, planar. Staff. Additional cond. Dps in opported dis. Smooth, planar. Staff. Additis and the state. To degree dis. Smooth, planar. Staff. Add	slight gritty feel when cut								
		6.00 - 6.50 UT 6.00 - 0.12 7.00 D 47 47 40 7.10 -1.22 	Very stiff very thinly laminated fissured	greyish brown	7 -									
									7.10	-1.22		silty CLAY. [Preliminary London Clay F subdivision C1].	ormation	
												LONDON CLAY FORMATION At 7.2m: fissure. 30 degree dip. Smooth, planar, slightly	v polished, very tight,	-
											××	clean, very stiff, unweathered. At 7.3m: fissure. 20 degree dip. Smooth, planar, slightly	v polished, very tight,	-
											<u>x</u> x	At 7.35m; fissure. 40 degree dip. Smooth, planar, slight clean, very stiff, unweathered. Dips in same direction as	!y polished, very tight, s fissure at 7.3m.	
		7. 7.50	50 - 9.00	D				100m	m			7.4 to 7.45m: fissure. 70 degree dip. Smooth, planar, sli plean, very stiff, unweathered.	ghtly polished, very tight,	-
		1.00	0.00									clean, very stiff, unweathered. Dips in opposite direction depth.	i to fissure at same	-
												At 7.5m: fissure. 90 degree dip. Smooth, undulating, slig clean, very stiff, unweathered.	ghtly polished, very tight,	-
												Clean, very stiff, unweathered. 7.75 to 9.0m: very closely fissured. Fissures appear ran	nay poissiea, very tight,	-
		_										are smooth, slightly polished, very tight, planar to undul undulating. Core fragmented into fine gravel to cobbled	ating, very tight, clean, -sized pieces defined by	
		8.	00	D								arger tissures. At 7.8m: fissure. 0 degree dip. Smooth, planar, slightly p clean. verv stiff, unweathered.	oolished, very tight,	8 -
				Type/Fl	TCR	SCF	RQE)	1,					-
Diame	Casing ter Dept	h (m) D	Water Streepth Strike	rikes (mbgl) Rose t	to	Cł Depth f	rom	(mbgl) Depth	Remarks	0 to 1 3~ C·'	lo Porcussion d) to 6 Em. Dotany Coro (Coobara C) - 6 E to 62 25		•
150	6.	50							nana dug :0.	οιο 1.2m. Cab	e Percussive: 1.2	2 to 0.5111. Rolary Core (Geodore-5): 6.5 to 62.25m.		
														2
L				1										

								F	Rot	ar	У	Сс	ore	Log	J				
Geo Project	-Environ Name: Lo	mental Indon Water R	ecycling (L	WR)		0	Client: Th	ames Wat	ter Utilitie	es Ltd				Date: 28/1	11/2024				
Locatio	n: London					0	Contracto	r:						Co-ords: E	E516954.4	42 N1730	51.93		
Project	No. : GE2	1665				(Crew Nan	ne:						Drilling Eq	quipment:				
В	orehole Nu	umber	Hole	е Туре	Э			Level			L	ogged B	Ву		Scale		Р	age Numb	er
	MT-025-	35 Damth	CF	P+RC) o ri in	~	5 تے <u>ک</u> ے	.88m AoD)		JH	I / KOD /	TL		1:20		S	Sheet 3 of 1	7
Well	Water	(m)	/FI	TCR	SCR	g RQD	Diamet Recove (SPT)	(m)	1 Le	m)	Le	gend		Str	ratum D	escripti	on		
		8.50 9.00	D	100	100	30	-100mm	9.00	-3	3.12			Very stil silty CL subdivitis LONDC At 8.1m: fissur clean, very stil At 8.15m: fissur clean, very stil At 8.25m: fissu clean, very stil At 8.35m: fissur clean, very stil At 8.34m: fissur clean, very stil At 8.35m: fissu clean, very stil At 8.35m: fissu clean, very stil At 8.35m: fissu	ff very thinl AY. [Prelim sion C1]. NN CLAY F re. 20 degree d ff. unweathere ure. 0 degree d ff. unweathere ure. 30 degree d ff. unweathere ure. 30 degree f ff. unweathere ff. unweathere ff. unweathere re. 60 degree d ff. unweathere ure. 60 degree ure. 60 degree and degree ff. unweathere ure. 60 degree and degree ff. unweathere ure. 60 degree ff. unweathere and degree ff. unweathere ure. 60 degree	ly laminat inary Lon ORMATIC dip. Smooth, p. d. g. Smooth, p. d. dip. Smooth, d. dip. Smooth, d. dip. Smooth, d. d. d. Smooth, d. d. d. Smooth, d. d. d. Smooth, d. d. d. Smooth, d. Smooth, d. Smooth, d. Smooth, d. Smooth, d. Smooth, d. Smooth, d. Smooth, d. Smooth, d. Diss in op di. Smooth, d. Diss in op di. Smooth, d. Diss in op di. Smooth, d. Diss in op di. Smooth, d. Diss in op di. Smooth, d. Smooth, d. Diss in op di. Smooth, d. Diss in op di. Smooth, d. Smooth,	ed fissure idon Clay DN planar, slight planar, slight planar, slight th fissure at planar, sligh planar, sligh posite direct planar, sligh posite direct	d greyish Formatio tly polished, y polished, v tly polished, v tly polished, 8.25m. slightly polished, ion to fissure thy polished, ion to fissure thy polished, ion to fissure thy polished,	h brown n very tight, very tight, very tight, d, very tight, very tight, e at 8.25m. f, very tight, f, very tight,	t. 9
		9.00 - 10.50 9.50 10.00	D	100	100	20							lean, very stil 8.4 to 8.55m:1 Very stil silty to V Formati LONDC 9.0 to 9.25m:1 tight, clean, ver 9.0 to 9.25m:1 tight, clean, ver 9.0 to 9.2m: fin tight, clean, ver 9.3 to 9.4m: fin clean, very stil 9.3 to 9.4m: finsur clean, very stil 9.5 to 9.80m: tight, clean, ver 9.6 to 9.75m:1 9.55 to 9.80m: tight, clean, ver 9.6 to 9.75m:1 9.55 to 9.80m: tight, clean, ver 9.6 to 9.75m:1 9.55 to 9.80m: tight, clean, ver 9.6 to 9.75m:1 ght, clean, ver 9.6 to 9.75m:1 tight, clean, ver 9.6 to 0.75m; tight, clean, ver 9.6 to 0.75m; tight, clean, ver 9.6 to 0.75m; tight, clean, ver tight, clean, ver y stil to 0.05m; tight, clean, ver y stil to 0.05m; ti	ff, unweathere fissure. 60 deg fissure. 60 deg fissure. 60 deg fissure. 60 deg on subdivi: on subdivi: on subdivi: on subdivi: on CLAY F silty, reducing fissure. 70 deg fissure. 70 deg ry stiff, unweathere ff, unweathere ff, unweathere fissure. 65 deg ry stiff, unweathere fissure. 65 deg ry stiff, unweathere fissure. 65 deg ry stiff, unweathere fissure. 65 deg ry stiff, unweathere fissure. 70 de ry stiff, unweathere ff, unweathere ff, unweathere ff, unweathere ff, unweathere ff, unweathere ff, unweathere	ed. Parallel w gree dip. Sm dd. [y laminat LAY. [Pre- sion C1]. ORMATIC: I o silly with gree dip. Sm athered. ORMATIC: I o silly with gree dip. Sm athered. Orige dip. Sm athered. Jes for the sill of the gree dip. Sm athered. Jes for the sill of the gegree dip. Sm athered. Jes dip. Smooth, ad. Joins in oor gegree dip. Sm athered. Jes dip. Smooth, ad. Gegree dip. Sm athered. Jes dip. Smooth, ad.	ith fissure at cooth, planar, ed fissure el fissure el fissure el fissure el fissure depth, cooth, undulati ont, planar, sligh Smooth, undu	á 25m. silghtly polis islightly polis condon C condon	shed, very tight brown clay polished, very olished, very olished, very es to other hed, very tight, hed, very tight, ty polished, very very tight, ty polished, very tight,	τ
	Diameter	10.50 10.50 - 12.0	0 D	73	0	0	-100mm						10.25 to 10.3m very tight, clea 4 10.35m. co of fossilised w 4 10.35m. fiss- clean, very stil A 10.4m. ery stil 10.5 to 12.0m: 10.5 to 12.0m:	n: fissure. 50 o an, very stiff, u arise sand-size ood. sure. 45 degree ff, unweathere core disturbe claystone.	degree dip. S inweathered. inweathered. de shell frag ed dip. Smoot d. e dip.	Smooth, undu ment, and a f th, planar, slig ith fissure at remeter. No s	ilating, slight ine gravel-si ghtly polishe htly polishe 10.35m. amples pos	tly polished, ized fragment ed, very tight, d, very tight, sible.	11
Hole Depth Ba	Diameter se Diameter	Casing Dia	iameter De	pth Top	Depth B	Chisel Base	IING Duration	Tool	Ir Depth Top	Depth	on an Base	d Orientat	tion Orientation	Depth Top	Depth Base	Drilling Type	r ⊢lush Colour	Min (%)	Max (%)
Rema	irks	1 2m Cable 5	Percussive:	1.2 to	6.5m	Rot	any Core	Geobora	-5). 6 5 +	in 62 2	25m								



Geo-Environmer	ntal						• •				LUG			
Project Name: London	n Water Recy	ycling (LV	VR)		C	Client: Th	ames Water	Utilities Lt	d		Date: 28/11/2024			
Location: London					C	Contracto	r:				Co-ords: E516954.	42 N173051	.93	
Project No. : GE21665	5				C	Crew Nan	ne:				Drilling Equipment:			
Borehole Numbe	er	Hole	Type			5				By	Scale		Page Number	er 7
WIT-023-33	Depth		<u>C</u>	orino	a	eter (ery	Depth	Level			1.20	I	oneer 4 of 1	
Well Water	(m)	/FI	TCR	SCR	RQD	Diamo Recov (SP ⁻	(m)	(m)	Legend		Stratum D	escription		
12.	00 - 13.50 12.10 12.50 13.00	D	100	100	53	-100mm				Very sti silty to v Format LONDC Af 12.05m: fis clean, very sti 12.05 to 12.00 tight, clean, very tight, clean, very tight, clean, very til 2.20 to 12.20 clean, very sti 12.20 to 12.23 polished, very tight, clean, very tig	iff very thinly laminat very silty CLAY. [Pre- cion subdivision C1]. DN CLAY FORMATI(Susre. 40 degree dip. Smoc fift. unweathered. Terminate for: Tissure. 40 degree dip. Smoc an, very stiff, unweathered. Per justre. 20 degree dip. Smoc an, very stiff, unweathered. Terminate Sm: fissure. 40 degree dip. Smoc fift. unweathered. Terminate Sm: fissure. 40 degree dip. Smoc an, very stiff, unweathered. Terminate Sm: fissure. 40 degree dip. Smoc an, very stiff, unweathered. Terminate Sm: fissure. 60 degree dip. Smoc an, very stiff, unweathered Sm: Sisure. 60 degree dip. Smoc an, very stiff, unweathered. Terminate Sm: fissure. 52 degree dip. Smoc an, very stiff, unweathered. Sm: fissure. 45 degree dip. Smoc asure. 45 degree dip. Smoc asure. 45 degree dip. Smoc asure. 45 degree dip. Smoc asure. 45 degree dip. Smoc an, very stiff, unweathered. Sm: fissure. 60 degree dip. Smoc an, very stiff, unweathered Sm: Ssure. 45 degree dip. Smoc an, very stiff, unweathered Sm: Ssure. 45 degree dip. Smoc an, very stiff, unweathered Smire. 45 degree dip. Smoc an,	ted fissured e eliminary Lor ON th, planar, slight se against fissure Smooth, planar, sendicular to fiss Smooth, planar, slight se against fissure se against fissure Smooth, planar, sinates against fi sth, slightly undu th, slightly undu th, slightly undu th, slightly undu	greyish brown ndon Clay ly polished, very tight, a tt 2.05-12.06m. slighty polished, very ure at 12.05m. tating, slightly polished, inst fissure at 12.16m. y polished, very tight, a tt 2.15m. slitt. undulating, slightly polished, slightly polished, very fissure at 12.40m tating, slightly polished, very tight, a tt 2.55m undulating, slightly nates against fissure at lating, slightly polished, lating, slightly polished, slightly polished, very fissure at 12.70m	
13.	13.50 50 - 15.00	D				- (35) 100mm				- 12.81 to 12.90 polished, veny at 12.83-12.91 At 12.82m: fis very tight, cle polished, veny at 12.81-12.90 12.82 to 12.91 polished, veny 12.81-12.90 12.81-12.90 12.81-12.90 polished, veny 12.81-12.90 12.95 to 13.00	0m: fissure. 45 degree dip. tight, clean, very stiff, unw 5m. Ssure. 30 degree dip. Smoc an, very stiff, unweathered 5m: fissure. 45 degree dip. tight, clean, very stiff, unw 0m. 3m: fissure. 80 degree dip. tight, clean, very stiff, unw and 12.83-12.95m. Bm: fissure. 85 degree dip. tight clean, ven, stiff unw and 12.83-12.95m.	Smooth, slightly veathered. Gene oth, slightly undur Smooth, slightly veathered. Gene Smooth, slightly veathered. Perpe Smooth, slightly veathered Termi	undulating, slightly rally parallel to fissure lating, slightly polished, undulating, slightly rally parallel to fissure undulating, slightly endicular to fissures at undulating, slightly notes angistightly notes angistightly	
	14.00	D	100	100	33		14.00	-8.12		13.08m. 12.96 to 13.04 roughly 20 de slightly undula Terminating a 13.08 to 13.21 polished, very 13.08m. 4t 13.08m; fis very tight, cle;	Bim: Multiple extremely clos grees. Set 2 dirping at no. ating, slightly polished, ven gainst fissure at 12.95-13, m: fissure. 80 degree dip. / tight, clean, very stiff, unw ssure. 0 degree dip. Smoot an, very stiff, unweathered ssure. 45 degree dip. Smoot	sely spaced fissu galy 45 degrees y tight, clean, ver 08m. Smooth, slightly u veathered. Termi h, slightly undula th, planar, slight	res. Set 1 dipping at Both sets are smooth, ry stiff, unweathered. undulating, slightly nates against fissure at titing, slightly polished, ly polished, very tight,	14
	14.50	D								clean, very st. 4t 13.25m; fis 5lean, very st. 13.27 to 13.3 very tight, clean, ver 13.28 to 13.4t ight, clean, vi 4t 13.31m; fin 13.35 to 13.4t polished, very 13.28-13.40m 13.55 to 13.6t Very sti	If, unweathered. ssure. 40 degree dip. Smoo fit, unweathered. 1m: fissure. 70 degree dip. an, very stiff, unweathered 0m: fissure. 75 degree dip. ery stiff, unweathered prissure. 85 degree dip. / tight, clean, very stiff, unw. 1 coarse sand-sized to fi fit very think Jamina di	oth, planar, slight Smooth, undula Smooth, planar, ssil shell fragmer Smooth, slightly veathered. Termi ine gravel-sized hed fissured (ly polished, very tight, ting, slightly polished, slightly polished, very nts. undulating, slightly nates against fissure at shell fragments. crevish brown	
15.	15.00 .00 - 16.50 15.50	D ·				-100mm				Very sill subdivi: LONDC 14.0 to 15.8m At 14.05m: fis lean, very sil 14.2 to 15.8m At 14.15m: fo 14.20 to 14.22 polished, very 14.20 to 14.22 14.35 to 14.22 14.35 to 14.22 14.35 to 14.22	ty CLAY. [Preliminar sion B2]. DN CLAY FORMATI(Sm. carse gravel-sized bit is very silty, laminations ind ssure. 0 degree dip. Smoot if, unweathered. ssillsed worm burrows abo Sm: three fissure. 10 to 20 right, clean, very stiff, unw m: partings and fine gravel 3m: medium gravel-sized r Sm: several fissures. 51 to 2 ed, very tight, clean, very s sure. 30 degree dip. Smoot	y London Cli ON valve shell fossili: istinct h, planar, slightly ut 1mm diamete degree dips. All veathered. -sized pockets o nyritised wood fo: 0 degree dips. A tiff, unweathered. 10 degree dips.	y Formation s r polished, very tight, r. smooth, planar, slightly f dark grey silt to fine ssil il smooth, planar, f. ly polished, very tight,	15
Hole Diameter C Depth Base Diameter Dep	Casing Diamet oth Base Diame 6.50 150	ter Dep	th Top	C Depth B	Chisel Base	ling Duration	Tool De	Inclina epth Top Dep	ation and Orienta	ation on Orientation	Depth Top Depth Base	Drilling Fl	ush Colour Min (%)	Max (%)
Remarks														



Geo	-Environ	mental																
Project	Name: Lo	ndon Water Rec	ycling (L	.WR)		C	Client: Th	ames Water	r Utilities	Ltd			Date: 28	/11/2024				
Locatio	n: London					C	Contracto	or:					Co-ords:	E516954	.42 N1730)51.93		
Project	No. : GE2	1665				C	Crew Nar	me:					Drilling E	quipment	:			
Bo	orehole Nu	umber	Hole	е Туре	;			Level			Logged	Ву		Scale		l i	Page Numb	er
	MT-025-	35	CF	P+RC			5 5	5.88m AoD	<u> </u>	.	JH / KOD	/TL		1:20		:	Sheet 5 of	17
Well	Water	Depth (m)	Iype /FI	TCR	SCR	g ROD	Diamete Recove (SPT)	Depth (m)	Lev (m	(el 1)	egend		S	tratum D	Descripti	on		
		16.00	D	100	100	27						Very sti very sil subdivi LONDC At 14.65m: fis lean, very st 14.66 to 14.6 slightly polish 14.67 to 14.7 polished, veny 14.75 to 14.9 diss. All smoo	iff very thi ty CLAY. [sion B2]. DN CLAY sure. 60 deg iff, unweathe d, very tight 3m: fissure. 4 v tight, clean, 0m: multiple th, planar, sl core disturt	nly lamina Preliminar FORMATI ree dips. Smo red. Ilel fissures. 1 t, clean, very s 15 degree dip. very stiff, unv setremely clo ightly polished bed by drilling	ted fissure y London ON ooth, planar, s 0 degree dip stiff, unweath . Smooth, slig weathered. sely spaced f d, very tight, o	ed greyis Clay For slightly polis . Both smoo ered. aphtly undula issures. 0 to clean, very shed out in	h brown mation hed, very tight oth, planar, ting, slightly o 20 degree stiff, places. Core	16
		16.50 16.50 - 18.00	D				- 79mm					split easily ald very closely s smooth, plana At 15.5m: fine At 15.75m: 10 side of core. 15.9 to 16.1m tight, clean, v At 15.95m: fis	ong large fiss paced, witho ar, slightly po gravel-sized omm thick ler fissure. 90 ery stiff, unw sure. 60 deg	ures into frag ut dominant s lished, very tig d patch of dari nse of dark gro degree dip. S eathered. uree dip. Smoo	ments up to to sets. Some ve ght, clean, ve k grey silt. ey very silty c mooth, plana oth, planar, sl	100mm diar ertical fissur ry stiff, unw clay. Thins t r, slightly po lightly polisł	neter. Fissures es. Fissures ar reathered. o 2mm towards olished, very ned, very tight,	e - -
		17.00	D									clean, very st 16.15 to 16.21 diameter) of c At 16.2m: fiss clean, very st 16.2 to 16.35 tight, clean, v 16.2 to 17.1m 16.25 to 16.5 tight, clean, v 16.5 to 18.0m	iff, unweathe m: several ve lark grey silt. sure. 5 degre- iff, unweathe m: fissure. 50 ery stiff, unw slightly san m: fissure. 90 ery stiff, unw c drilled usion	red. ery thin lenses e dip. Smooth red. O degree dip. 3 eathered. dy. Sand is fir O degree dip. 3 eathered.	s (up to 1mm n, planar, sligt Smooth, plan ne. Smooth, plan to form test r	thickness, 3 htly polished ar, slightly p ar, slightly p pocket for p	80to 50mm d, very tight, polished, very polished, very	
		17.50	D	100	100	53						At 16.8m: fiss clean, very st At 16.85m: fis clean, very st At 16.85m: fis clean, very st depth. At 16.87m: fis clean, very st At 16.95m: fis clean, very st clean, very st	ure. 70 degri iff, unweathe isure. 60 deg isure. 55 deg iff, unweathe isure. 60 deg iff, unweathe isure. 60 deg iff, unweathe isure. 60 deg iff, unweathe isure. 60 deg iff, unweathe	ee dip. Smoot red. ree dip. Smoo red. Dips in o ree dip. Smoot red. Parallel v ee dip. Smoot red. Parallel v ree dip. Smoot red. Parallel v	th, planar, slig oth, planar, sl pposite direct oth, planar, sl with fissure at th, planar, slig with fissure at oth, planar, sl with fissure at	htly polishe ghtly polish ightly polish ightly polish 16.85m. ghtly polishe 16.85m. ightly polish 16.85m.	ed, very tight, ned, very tight, fissure at sam ned, very tight, ed, very tight, ned, very tight,	
		18.00 18.00 - 19.50	D				-100mm					At 17.1m: fiss direction. Smu <u>unweathered.</u> At 17.1m: fiss <u>clean, very st</u> At 17.15m: fis <u>clean, very st</u> <u>degree dip at</u> 17.15 to 17.2 degree dip. S	ure. Dips at poth, undulat ure. 40 degn iff, unweathe ssure. 85 deg iff, unweathe 17.1m. 5m: three sul mooth, plana	80 degrees, c iing, slightly po ee dip. Smoot red. irree dip. Smoot red. Dips in o bparallel fissu ir, slightly poli	urving to 80 c olished, very th, planar, slig oth, planar, sl pposite direct res spaced a shed, very tig	degrees in c tight, clean, yhtly polish ightly polish tion to fissu t 10 to 20m yht, clean, v	ppposite very stiff, ed, very tight, ned, very tight, re with 40 m. 30 to 40 ery stiff,	18 -
		18.50	D									<i>unweathered.</i> At 17.2 <i>m:</i> coa At 17.2 <i>m:</i> fiss clean, very st 17.15 <i>m.</i> 17.2 to 17.35 <i>very tight,</i> cle 17.45 to 17.55 <i>tight,</i> clean, v 17.45 to 17.55 <i>tight,</i> clean, v 17.45 to 17.55	arse sand-siz aure. 45 degri ff, unweathe m: fissure. 65 an, very stiff, m: fissure. 45 ery stiff, unw 5m: fissure. 5	ed patch of di ee dip. Smoot red. Dips in o degree dip. unweathered degree dip. eathered. 00 degree dip. eathered. 00 degree dip.	ark grey silt. th, planar, slig pposite direct Smooth, undu Smooth, plan Smooth, pla	ghtly polishe tion to three ulating sligh ar, slightly nar, slightly nar, slightly	ed, very tight, fissures at tly polished, polished, very polished, very polished, very	- - - - - - - -
		19.00	D	93	87	33						ight, clean, v fissure at sam f7.6 to 17.7m At 17.85m: fis clean, very st f1.7.85 to 18.0 tight, clean, v At 17.9m: fiss clean, very st clean, very st t18.0 to 19.5m At 18.55m: fis clean, very st At 18.65m: fir 18.70 to 18.9 dips. Smooth,	ery stiff, unw ne depth. : extremely of ssure. 30 deg ery stiff, unweathe ery stiff, unw ure. 20 degr iff, unweathe : Dark grey r mm diamete ssure. 70 deg fiff, unweathe ne gravel-size Om: multiple planar to sli	eathered. Alig closely fissure ree dip. Smoot red. 0 degree dip. Smoot red. noderately str f ossilised wo ree dip. Smoot red. ad fossilised wo extremely clos.	ned at 90 de d. oth, planar, sl Smooth, plan th, planar, slig ong clayston orm burrows oth, planar, sl vood. sely spaced fi ng, slightly pc	grees to oth ightly polish ar, slightly p ghtly polishe e. ightly polish ightly polish jssures. 20 plished, verj	eer vertical ned, very tight, polished, very ad, very tight, ned, very tight, to 50 degree rtight, clean,	19
		19.50 19.50 - 21.00	Ð				100mm			×	 	very stiff, unw At 19.0m: fiss clean, very st	reathered. sure. 10 degr iff, unweathe	ee dip. Smoot red.	th, planar, slig	ghtly polishe	ed, very tight,	
Hole Depth Bo	Diameter	Casing Diame	ter Do	nth Top	Denth	Chisel _{Base} I	ling	Tool	Inc	lination a	and Orienta	ation	Denth Ton	Depth Base	Drilling	g Flush	Min (%)	Max (%)
Берш ра	Diamete	6.50 15	0		Берин	2000	JuraliUII					Gnentation	Берштор	Deput Dase	туре	Colour	win1 (70)	
Rema	rks							· · · ·									_	



Geo	-Environ	mental																
Project	Name: Lo	ondon vvater Red	cycling (L	WR)				ames vvai	ter Utilitie	es Lta			Date: 28/	11/2024	40 1470	54.00		
Locatio	n: London	1						Dr:					Co-oras:	E516954.	.42 N1730	51.93		
Project	No. : GE2	21665	Hal				Jrew Nar	me:			Loggod	D.r	Drilling E	quipment:			Dogo Numh	
	MT-025-	35	CF	e type P+RC	;		5	5.88m AoD)		JH / KOD	/ TL		1:20			Sheet 6 of 7	17
Well	Water	Depth (m)	Type /FI	C	SCR	g RQD	Diameter Recovery (SPT)	Depth (m)	ı Le (r	vel n)	Legend		St	ratum D	Descripti	on		
		20.00	D	100	100	73						Very sti very sli subdivi LONDC 19.0 to 19.1m 1ght, clean, v At 19.1m: fiss clean, very st 19.10 to 19.1 clean, very st 19.20 to 19.0 clean, very st 19.5 to 19.6 slight/polish 19.3 to 19.4 n 9.00 to 49.1 clean, very st 19.5 to 19.6 n 19.3 to 19.4 19.3 to 19.4 19.00 to 49.1 clean, very st 19.5 to 19.6 19.3 to 19.4 19.0 to 49.0 slight/polish 19.3 to 19.4 10.0 colished, very 19.4 m.	iff very thir ty CLAY. [I sion B2]. DN CLAY F Trissure. 80 of erry stiff, unwe tery stiff, unwe red stiff, unwe red stiff, unwe ted um gravel- iff, unweather ssure. 70 degr iff, unweather to degr iff, unwea	Ily lamina Preliminar CORMATI tegree dip. Stathered. e dip. Smoot ed. O degree dip. sized pale bi ee dip. Smoot ed. Dips in oj ee dip. Smoot ed. Dips in oj ee dip. Smoot ed. O degree and 0 degree and	ted fissure y London ON mooth, planar, slig Smooth, planar, slig Smooth, planar, slig Smooth, planar, slig minates agai Smooth, planar, sl d 10 degree dip veathered. To o degree dip.	ed greyis Clay For r, slightly pol ghtly polishe nar, slightly polishe nar, slightly polish ghtly polish giptly polish giptly polish giptly polish ered. Smooth, pie rrminating e proth clink	h brown rmation blished, very ed, very tight, polished, very ti 19.1m. ystone nodule ed, very tight, h, planar, lanar, slightly against fissure a	20
		20.50	D									At 19.4m: two slightly polish At 19.45m: m At 19.46 to 11 - undulating, sl Terminating a 19.55 to 19.6 ight, clean, v At 19.60m: fis yery tight, cle At 19.63m: fis clean, very st At 19.65m fis	p parallel rissu led, very tight, edium gravel 9.48m: two fis lightly polished ggainst fissure 6 0m: fissure . 5 ery stiff, unwe ssure . 85 degr an, very stiff, ssure . 15 degr iff, unweather 5 denre	res. U degree clean, very si sized pale br sures. 40 to 4 d, very tight, d at 19.45m. 0 degree dip. athered. ree dip. Smoo ed. e dip. Smool ed.	e dip. Both sr: stiff, unweath own extreme 45 degree dip clean, very st . Smooth, pla oth, slightly u I. Terminates oth, planar, sli th, planar, sli	nooth, siigh ered. Iy weak cla o. Smooth, s iff, unweath nar, slightly ndulating, s against fiss ightly polish abty polish	ty undulating, ystone nodule slightly rered. polished, very lightly polished ure at 19.63m. ned, very tight, ad very tight	- - - - - - - - - - - - - - - - - - -
		21.00 21.00 - 22.50	D				- (49) 100mm					clean, very st At 19.7m: fiss clean, very st 19.70 to 20.00 olanar, slightl erminate aga 19.7 to 20.0m At 19.8m: fiss clean, very st 19.85 to 19.99	iff, unweather sure. 15 degre iff, unweather m: two fissure y polished, ve ainst fissures a n: Dark grey co sure. 10 degre iff, unweather Om: fissure. 8	ed. e dip. Smoot ed. Dips in oj s. 45 degree ry tight, clee ry tight, clee at 19.85 to 19 blouration on e dip. Smoot ed. 5 degree dip.	th, planar, slig pposite direct and 60 degr n, very stiff, u 9.90m and 20 fissure surfa th, planar, slig . Smooth, pla	ghtly polishe tion to fissu ee dips. Bo nweathered 0.05m ces. ghtly polishe nar, slightly	ed, very tight, re at 19.63m. th smooth, d. Both ed, very tight, polished, very	21
		21.50	D	100	100	27						19.0 to 20.0m tight, clean, v At 20.05m: fis clean, very st 19.90m. 20.1 to 20.3m At 20.30m: tw Both smooth, At 20.35m: fis	n: fissure. 45 c ery stiff, unwe ssure. 30 degr iff, unweather n: core broke i planar, slight ssure. 10 degr	legree dip. S. aathered. ee dip. Smoo ed. Both term nto fragment degree and 2 ly polished, v ree dips. Smoo	mooth, plana, si ninate agains ed pieces du 20 degree dip rery tight, clea poth, planar, s	r, slightly po lightly polish t fissure at ring handlin s. Fissures an, very stifi slightly polis	olished, very ned, very tight, 19.85 to g. jeet at one ena f, unweathered, shed, very tight,	
		22.00	D									lean, very st 20.40 to 20.50 dips. All smoot unweathered 4t 20.6m: two tight, clean, v tal 20.85m: fis clean, very st 4t 20.95m: fis clean, very st 21.0 to 21.300 polished, ergy 21.0 to 21.300 polished, ergy 4t 21.05m: fis	iff, unweather Om: multiple e of fissures. 30 of or ery stiff, unwe ssure. 50 degr iff, unweather ssure. 20 degr iff, unweather ssure. 70 degr iff, unweather m: subvertical y tight, clean, ssure. 40 degr	ed. extremely clos ghtty polished degree dips. eathered. ree dip. Smoo ed. ree dip. Smoo ed. fissure. 85 c very stiff, um	sely spaced f d, very tight, d Smooth, plan oth, planar, si oth, planar, si degree dip. S veathered. oth, planar, si	ïssures. 10 clean, very har, slightly lightly polisi lightly polisi mooth, plan lightly polisi	to 70 degree stiff, polished, very ned, very tight, ned, very tight, ned, very tight, nar, slightly ned, very tight,	22 -
		22.50 22.50 - 24.00 23.00	D	100	100	13	-100mm					Lean, very st 21.25m: two i Smooth, plan At 21.30m: tw pther. Both sr unweathered. At 21.45m: tim 21.5 to 21.55 All smooth, pl stiff, unweath 21.60 to 21.7. polished, very 21.75 to 21.8 dips. All smoot very stiff, unweathered. 21.95m: fissu unweathered. 22.0 to 22.55	iff, unweather fissures. 20 ar ar, slightly pol or fissures. 30 mooth, planar, <u>ne</u> gravel-size m: multiple ex lanar to slightli 5m: subvertic. 5m: subvertic. 5m: multiple e oth, planar to veathered. re. Smooth, p	ee dip. Srihol ed. Terminatu nd 60 degree ished, very ti and 60 degr slightly polis d pyritised wi tremely close y undulating, al fissure. 80 every stiff, unv very stiff, unv	an, partial, Si an, partial, Si es against fis dips, dipping ght, clean, ve ree dips, roug shed, very tig ood fossil. ely spaced fis slightly polis degree dip. Si sely spaced fi ating, slightly y polished, ve as, 20 to 60m	spring polish spring to polish of in opposite spring tiff, unv phy perpen- nt, clean, ver ssures. 0 to hed, very ti Smooth, pla Smooth, pla Smooth, pla issures. 10 of polished, v ery tight, clean m spacing	 rea, very ught, 1-21.3m. e directions. e directions. e directions. e directions. 30 degree dips ght, clean, very nar, slightly to 60 degree rey tight, clean an, very stiff, 70 to 80 degree 	, 23 –
Hole Depth Ba	Diameter se Diamete	Casing Diame r Depth Base Diar 6.50 1	eter Dep	pth Top	(Depth I	Chisel	ling Duration	Tool	In Depth Top	Depth	n and Orienta Base Inclinatio	ation Orientation	veathered.	Depth Base	Drilling	g Flush Colour	Min (%)	
Rema	irks																	



Geo Proiect	-Environ Name: Lo	<u>mental</u> ndon Water R	ecvclina (WR)			Client [.] Th	ames Wat	er Utilities	sItd	_		Date [,] 28	/11/2024				
	n: London						Contracto	or.					Co-ords	F516954	42 N1730)51 93		
Project		1665					Crew Nar	me [.]					Drilling F					
B	orehole Nu	Imber	Но	le Type	9			Level			Logaed E	Зv		Scale		F	Page Numb	er
	MT-025-	35	C	P+RC			5	5.88m AoD			JH / KOD	- , / TL		1:20		5	Sheet 7 of	17
Well	Water	Depth (m)	Type /Fl	TCR	SCR	g RQE	Diameter Recovery (SPT)	Depth (m)	Lev (m	/el ı)	Legend		S	tratum D	Descripti	on		
		(m) 23.40 - 23.8 24.00 24.00 - 25.5 24.50 24.50 25.00 25.00 25.50 - 27.0 25.80 25.80	/FI 0 C 0 D 0 D 0 D 0 D 0 D	TCR 73	SCR 73	20	- 79mm	(m) 24.00 24.40	-18. -18.	1)		Very st very sil subdivi LONDC At 22.1m: two n opposite di At 22.1m: two n opposite di At 22.20m: ca hodule. 22.3 to 22.35 tips. Both sm: very tight, cle 22.3 to 22.35 tips. Both sm: very tight, cle 22.3 to 22.37 di 22.3 to 22.35 tips. Both sm: very tight, cle 22.7 to 22.8 tips. Both sm: very tight, cle 22.7 to 22.8 tips. to 22.7 noished, very at 22.7 and 22 to 22.7 and 24 to 23.9 to 24.0m oughly 0 deg Dipping in op bolished, very 33.9 to 24.0m oughly 0 deg Dipping in op bolished, very 33.9 to 24.0m oughly 0 deg Dipping in op to 25.05 to 25.4 tight, clean, v tepth. 25.05 to 25.4 tight, clean, v	iff very thi ty CLAY. [sion B2]. DN CLAY extremely c rections. Bot extremely c rections. Bot extremely c rections. Bot extremely c rections. Bot execting to gether marse sand-s- marse sand-s- marse sand-s- marse sand-s- ty unweather sarse and-s- ty unweather sarse sand-s- ty unweather sarse sand-s- ty unweather sarse sand-s- ty unweather sarse sand-s- ty unweather sarse sand-s- ty unweather sarse sand-s- sarse sand-s- sarse sand-s- sarse sand-sand- sarse sand-sand- sand-to slight ered marse sand-sand- sand to slight ered marse sand- sand to slight ered marse sand-sand- sand to slight ered marse sand- sand to slight ered marse sand sand sand sand sand sand sand sand	nly lamina Preliminar Preliminar FORMATI losely spaced h smooth, pla minating aga sized pale bro- ratelie extreme to slightly uncu- ree dip. Smou unweathered slightly polisi remely closelity undulating, closelity undulat	ted fissures y London ON Ifissures. 10 nar to slightly inist one of t sures. 20 pwn with dark- aly closely sp julating, sligh oth, slightly u I. slightly polis degree dip. weathered. T e dip. Smoot slightly polis degree dip. sely to closel alar to each. Sely to closel alar to each. Smooth, planar to Smooth, plar Smooth, plar Smooth, plar	ed greyisl Clay For to 30 degree polished, vn ef fissures a vitised wood grey interio aced fissures ty polished, ndulating, sl 45 degree aa t, clean, ver, sures. O to 44 thed, very tig Smooth, planar, eminates ac th, planar, sli the directions ther. All smooth, planar, eminates ac sures. Three ediameter to coth, planar, ooth, planar, ooth, planar, et al signify undu e diameter to condon C Laminations ontert decree ar, slightly p ar, slightly p ar, slightly p	n brown mation e dips, dipping ery tight, clear t 22.0 to f fossils. r claystone s. 30 degree very tight, ightly polished nd 70 degree y stiff. D degree dips. iht, clean, very anar, slightly anar, slightly anar, slightly sures. 30 to 40 both, planar to nweathered sures. 20 to 41 t to each other iht, clean, very slightly slightly slightly sets. Set 1: tree dip. lating, slightly used for h brown lay a: indistinct. asing with olished, very olished, very olished, very	
Hole	Diameter se Diameter	26.50 27.00 27.00 - 28.50 27.00 - 28.50 Casing Diat Depth Base D 6.50	D D D D D D D D D D D D D D D D D D D	100	100	67	- (49) 100mm Juration	Tool	Inc Depth Top	Slination		Tissure at sam At 25.1m: fiss bean, very st born length 25.55 to 25.6 tight, clean, v At 25.6m: fiss clean, very st 25.6 to 25.65 tight, clean, v At 25.8m: fiss clean, very st 26.6 to 26.7m: fiss clean, very st 26.6 to 26.7m: fiss clean, very st 26.75 to 27.0 tight, clean, v At 26.7m: fiss clean, very st 26.75 to 27.0 tight, clean, v At 26.7m: fiss clean, very st 26.75 to 27.0 tight, clean, v deta, very st clean, ve	le depth. ure. 60 degr. fft unweather itised fossil g m: fissure. 90 ery stiff, unweather m: fissure. 90 ery stiff, unweather fft unweather it fissure. 90 ery stiff, unweather it fissure. 90 ery stiff, unweather it fissure. 90 ery stiff, unweather m: fissure. 90 ery stiff, unweather fissure. 90 ery stiff, u	ee dip. Smooi red. iastropod. Co. 0 degree dip ee dip. Smooi ee dip. Smooi red. 0 degree dip. ee dip. Smooi red. degree dip. Smooi red. 0 degree dip. e dip. Smooi red. 0 degree dip. ee dip. Smooi red.	h, planar, sli nical, 15mm Smooth, plar th, planar, sli Smooth, plan andy silt. Sar th, planar, sli mooth, planar, sli Smooth, plan Smooth, plan Tiulin Type	htty polishe reducing to t reducing to t rear, slightly polishe ear, slightly polishe at is fine. ghtly polishe r, slightly polished ear, slightly polished ear, slightly polished ear, slightly polished	d, very tight, 5mm diameter: olished, very d, very tight, olished, very d, very tight, lished, very ins. ; very tight, olished, very Min (%)	26
Rema Hand d	urks ug :0.0 to	1.2m. Cable P	ercussive	: 1.2 to	o 6.5m	. Rot	tary Core	(Geobore-	-S): 6.5 to	62.25	im.							
	J								,	-							AG	S

Gaal		montol						F	Rot	ar	У	Сс	ore	Log	g				
Project N	lame: Lo	mental ondon Water Re	ecyclin	g (LWR)		(Client: Th	names Wa	ter Utilitie	es Ltd				Date: 28/	11/2024				
Location	: London					0	Contracto	or:						Co-ords:	E516954.	.42 N1730	51.93		
Project N	lo. : GE2	21665				(Crew Na	me:						Drilling E	quipment	:			
Во	rehole Nu	umber		Hole Ty	be			Level			L	Logged B	Зу		Scale		Pa	age Numb	er
	MT-025-	35		CP+R0)		t t t t t t t t t t t t t t t t t t t	5.88m Ao[) 		JH	I/KOD/	TL		1:20		S	heet 8 of 1	7
Well	Water	Depth (m)	Ty /I	ре -I _{тсі}	Corir	ng RQD	Diamete Recover (SPT)	Deptł (m)	n Le	evel m)	Le	egend		St	tratum D	Descripti	on		
		27.50 27.80	1	D 67	53	27		28.00	-2	2.12			Very stii silty to v Formati LONDC 27.6 to 28.0m. polished, very At 27.7m: part At 27.85m: part At 27.85m: part At 27.85m: part At 27.85m: part At 27.85m: part 27.9 to 28.0m. NO REC 28.0 to 28.5m.	ff fissured very silty (on subdiv N CLAY f N CLAY f extremely c tight, clean, ing of dark g ing of dark g ring of dark medium stra COVERY, no recovery	very thinl CLAY. [Pre- ision B1]. FORMATI losely fissure unweathered rey slightly sa rey slightly sa grey slightly sa grey slightly sa grey slightly sa possibly due	y laminate eliminary L ON d. Fissures a t. andy silt. San andy silt. San andy silt. San andy silt. San diameter. sandy silt. Sa sandy silt. Sa s	ed greyish .ondon Cl: re smooth, pi d is fine. d is fine. Pa nd is fine. Pa nd is fine. Pa nd is fine. Pa nd is fine.	brown ay anar, slightly rting includes	28
		28.50 - 30.00 28.60	0				-100mm	28.50	-2	2.62			Very stir silty to v Formati LONDC At 28.7m: fissu clean, very stir dean, very stir clean, very stir	ff fissured very silty (on subdiv <u>N CLAY I</u> ure. 70 degre ff, unweather ure. 30 degre ff, unweather	very thinl CLAY. [Pre- rision B1]. CORMATI e dip. Smoot ed. Dip direc	y laminate eliminary L ON th, planar, slig th, planar, slig tion is 90 dec	ed greyish ondon Cla htly polished rees clockwi	brown ay , very tight, , very tight, se relative to	
		29.00	1	D									other fissure a At 28.75m: fis clean, very stii At 28.78m: fis clean, very stii At 28.8m: fiss clean, very stii	t same depti sure. 90 degi ff, unweather sure. 70 degi ff, unweather ure. 30 degre ff, unweather	n. ree dip. Smoo red. ree dip. Smoo red. re dip. Smoot red.	oth, planar, sl oth, planar, sl th, planar, slig	ightly polishe ightly polishe ihtly polished	d, very tight, d, very tight, , very tight,	29 —
		29.30 - 29.70		C ¹⁰⁰) 100	40							At 29.6m; foss clean, very stit 29.05 to 29.15 At 29.1m; fisst clean, very stit 29.1 to 29.10 29.1 to 29.10 29.1 to 29.10 tight, clean, very stit At 29.3m; fisst clean, very stit At 29.8m; part 29.8 to 29.9m; tight, clean, very	illised wood 1 irre. 50 degre ff, unweather irre. 50 degre ff, unweather irr. fissure. 90 ery stiff, unwe base. illised wood 1 irre. 50 degre ff, unweather ing of dark g ifssure. 70 o ry stiff, unwe	ragment. Zm e dip. Smool ed., Smool ed., Smool ed., Parallel v degree dip. sathered. Ten fragment. Sm re dip. Smool ed. Parallel v rey slightly se fegree dip. S sathered.	m diameter, s ifine. if, planar, slig vith fissure at Smooth, plan m diameter, 2 ih, planar, slig vith fissure at andy silt. San mooth, plana	orm length. htty polished 29.0m. ar, slightly po nst fissure at 20mm length. htty polished 29.0m. d is fine. r, slightly poli	, very tight, , very tight, lished, very top, and , very tight, shed, very	
		30.00 30.00 - 31.5(– 78mm						30.35 to 30.45	im: extremely	r closely fissu	ured. Laminat	ions indistinc	t.	30
		30.50		ЭО О	90	60							30.9 to 31.0m tight, clean, ve At 30.9m: fissi clean, very stii	fissure. 75 o ry stiff, unwe ure. 20 degre ff, unweather	legree dip. S eathered. Ten e dip. Smoot ed.	mooth, plana minates agair h, planar, slig	r, slightly poli nst laminatior htly polished	shed, very ns. , very tight,	
Hole Depth Base	Diameter	Casing Diar	neter ameter	Depth To	Denth	Chise Base	lling Duration	Tool	li Depth Top	nclinati Depth	on an _{Base} l	d Orientat	tion Orientation	Depth Top	Depth Base	Drilling Type	g Flush Colour	Min (%)	Max (%)
Soper Dase	Signet	6.50	150	2000110			20.0001		- Sobar job	Jopul	2000	moniauon		Sopar top		1360	501001		

Remarks



Proiect	Name [.] I o	ndon Wate	r Recv	clina (l	WR)		(Client: Th	ames Wate	er Utilitie	es Ltd				Date: 28	/11/2024				
	n: London		TRECY		wiiii)				ames wat						Co-ords:	E516054	12 N173	051 03		
Project		1665						Crow Nor	n. no:						Drilling E		42 117 30	001.00		
Bo	prehole Nu	umber		Hole	e Type	•			Level			Loga	ed	Bv		Scale		F	Page Numb	er
	MT-025-	35		CF	P+RC			5	5.88m AoD			JH / K	DC	/ TL		1:20			Sheet 9 of 1	17
Well	Water	Deptl (m)	h	Type /FI	C TCR	SCR	g RQC	Diameter Recovery (SPT)	Depth (m)	Le (r	evel m)	Leger	nd		S	tratum D	escript	ion		
		31.00)	D				-100mm						Very stif silty to v Formati- LONDO 31.05 to 31.25 tight, clean, ve At 31.1m: foss	f fissurec very silty o on subdiv <u>N CLAY</u> m: fissure. & ry stiff, unw ilised wood	Very thinl CLAY. [Prevision B1]. FORMATIO degree dip. degree dip. fragment. 3m	y laminat Iliminary I ON Smooth, pla m diameter,	ed greyis London C anar, slightly 20mm lengti	h brown lay polished, very h.	31
		31.50 - 3 32.00	3.00	D										At 31.7m: thin	lense of dar	rk grey silt. grey slightly s	sandy silt. S	and is fine.		32
		32.50)	D	100	67	53							32.3 to 32.4m: tight, clean, ve At 32.5m: fissu clean, very stif	fissure. 70 ry stiff, unwo re. 45 degru f, unweathe	degree dip. Si eathered. ee dip. Smoot red.	mooth, plana h, planar, sli	ar, slightly po	olished, very	
		33.00 33.00 - 34) 4.50	D				–100mm						At 33.0m: fissu clean, very stif At 33.03m: sul very tight, clea At 33.15m: sul	ire. 50 degra f, unweathe phorizontal f n, very stiff, phorizontal f	ee dip. Smoot red. fissure. 0 degr unweathered fissure. 5 degr	h, planar, sli ee. Smooth ee dip. Smo	ghtly polishe , planar, slig oth, slightly ;	d, very tight, htly polished, undulatina.	33
		33.50)	D										At 33.65m: fiss At 33.30m: sub slightly polishe fissure at 33.1	d, very tight 3m. bhorizontal f d, very tight 5m. sure. 30 deg	ree dip. Smoo	ee dip. Smo ee dip. Smo stiff, unweath oth, planar, s	oth, slightly oth, slightly hered. Rough	nity parallel to undulating, hly parallel to hed, very tight,	
		34.00)	D	100	100	80							Clean, very stift At 33.70m; fiss clean, very stift At 33.80m; fiss blean, very stift 33.85 to 33.90 light, clean, ver 33.95 to 34.05 All smooth, ple At 34.0m; fissu clean, very stift to 34.05m. At 34.15m; fiss clean, very stift	f, <u>unweathe</u> sure. 30 deg f, <u>unweathe</u> m: fissure. 4 ry stiff, <u>unweathe</u> m: four very inar, slightly ure. 30 degr f, unweathe sure. 30 deg f, unweathe	red. rree dip. Smoot rred. Roughly rree dip. Smoot red. 15 degree dip. eathered. closely space polished, ver ee dip. Smoot red. Dipping ii rree dip. Smoot red.	oth, planar, s oarallel to fis oth, planar, s Smooth, pla d sub parall y tight, clean h, planar, sli n opposite di oth, planar, s	lightly polish ssure at 33.6 lightly polish anar, slightly lel fissures. , very stiff, u ghtly polishe irection to fis lightly polish	ed, very tight, 5m. polished, very tight, polished, very 10 degree dips. Inweathered. Id, very tight, sures at 33.95 wed, very tight,	. 34
		34.50 34.50 - 30) 6.00 -	D				–100mm						At 34.42m: sul polished, very 34.5 to 35.1m: determine dip At 34.55m: fiss slightly polishe	bhorizontal f tight, clean, core disorie angle of diso sure. Unable d, very tight	fissure. 0 degr very stiff, unv ented in barrel continuities. to determine t, clean, very s	ee dip. Smo veathered. due to slipp dip angle. S tiff, unweatf	oth, planar, s ed core belo Smooth, slig ered.	slightly ww. Unable to htly undulating,	
Hole	Diameter	Casing I	Diamete	er –		L	Chise	lling		l Ir	nclinatio	on and Ori	enta	ation	D	D	Drillin	g Flush		
Depth Bas	se Diameter	r Depth Base 6.50	Diame 150	ter Dep	oth Top	Depth I	Base	Duration	Tool	Jepth Top	Depth	Base Inclir	natio	on Orientation	Depth Top	Depth Base	Туре	Colour	Min (%)	Max (%



Geo	-Environ	mental										<u> </u>		Date: 28/11/2024				
Project	Name: Lo	ndon Wate	r Recy	cling (L	WR)		C	Client: Th	ames Wa	ter Utili	ties Ltd			Date: 28/11/2024				
Locatio	n: London						C	Contracto	r:					Co-ords: E516954	.42 N1730	51.93		
Project	No. : GE2	1665					C	Crew Nan	ne:					Drilling Equipment				
Bo	orehole Nu	umber		Hole	е Туре	•		F	Level	`			By	Scale		P	age Numbe	er
	MT-025-	35 Denti	h	Type		orin		ery ()	Denth			JH / KUL		1:20		51	neet 10 of 1	
Well	Water	(m)		/FI	TCR	SCR	9 RQD	Diame Recovi (SPT	(m)		(m)	Legend		Stratum E	Descriptio	on		
		35.00)	D					05.00				Very sti silty to Format LONDC 34.70 to 34.8 undulating, sl At 34.85m: fis polished, very 35.0 to 35.5m polished, very 35.0 to 35.5m	iff fissured very thinl very sitty CLAY. [Pre- ion subdivision B1]. DN CLAY FORMATI Om: two fissures. Unable to fighty polished, very tight, issure. Unable to determine tight clean, very stiff, um sure. Unable to determine tight clean, very stiff, um r. fissure. Unable to determine tight clean, very stiff, um fism fissure. Unable to determine	y laminate eliminary Lo o determine di clean, very stit dip angle. Sn veathered. dip angle. Sn veathered. nine dip angle. veathered.	d greyish ondon Cl p angle. Sm ff, unweathe nooth, plana Smooth, plana	a brown ay mooth, slightly red. r, slightly r, slightly anar, slightly	35
	35.50 D 93 S 35.50 D 4 36.00 36.00 - 37.50 D 4								35.30	-	29.42		polished, very 35.1 to 36.0m 35.1 to 36.0m Very sti silty CL Londor 35.30 to 37.00 35.30 to 38.00 35.32 to 35.70 to 20 degree very tight, cle 35.33 to 35.40	tight clean, very stiff, univ core slipped, recovered iff fissured very thinl AY. With occasiona to Clay Formation sui DN CLAY FORMATI m: becoming very silty slig om: Slighty sandy with rec om: multiple very closely s dips. All smooth, planar to an, very stiff, unweatherec 5m: fissure. 80 degree dip. tight clean, very stiff, unverstiff, unvers	weathered. on repeat run. y laminate partings. bodivision A bodivision A ON htly sandy. fucing sand cc. paced (30, 50, silghtly undula ! Smooth, sligf weathered.	d brownis [Prelimin: 3]. ontent. , 60, subpar ating, slightly	sh grey ary allel fissures. (y polished, ng, slightly	
	36.00 D 36.00 - 37.50							–100mm										36
	36.50 D					47						36.45 to 36.5. to fissure at 3 clean, very st 36.55 to 36.8 20 degree dip tight, clean, v At 36.60m: fis at 36.55 to 30.	5m: subvertical fissure. 80 16.00 to 36.50m. Smooth, t 1ff, unweathered. 0m: multiple extremely clo. ss. All smooth, planar to sli ery stiff, unweathered. ssure. 70 degree dip. Dip o 5.80m. Smooth, planar, slig	degree dip. D Indulating, slig sely spaced (5 ghtly undulatir lirection is roug htly polished,	ip direction htly polishe 5-(10)-60mm ng, slightly p ghly 90 degi very tight, c	is 90 degrees d, very tight, n) fissures. 5 to olished, very rees to fissures lean, very stiff,		
		37.00)	D	100	100	47						36.90 to 37.1. Ar 35.85m: thu polished, very other at a poil Ar 37.18m: La pyritised conor 37.2 to 37.21 pyritised conor 37.2 to 37.21 pyritised conor 37.2 to 37.21 bighty polish 37.2 7 to 37.3 degree dips. tight, clean, v Ar 37.35 to 33 degree dip, degree dip, degr	5m: Partings of light grey s or fissures. 25 degree and tight, clean, very stift, mun ayer of light grey silt of fine m: Dark grey to black silt to reations. Dim: subvertical fissure. 80 ed, very light, clean, very 2m: multiple extremely cloa All smooth, planar to slight ery stift, unweathered 7 40m: two sets of fissures ipping in opposite directior an, very stift, unweathered	silt to fine sand 45 degree dip veathered. Ter sand. o fine sand wit degree. Smo stiff, unweathe sely spaced st ly undulating, . . One set 20 d s. Both smoot	I. IS. Smooth, , rminating ag th fine grave oth, slightly rred. Jubparallel fis slightly polis legree dip, o th, planar, sl	planar, slightly vainst each undulating, ssures. 0 to 20 shed, very one set 10 lightly polished, vary	37
		37.50)	D				-100mm				<u>xx</u>	- 37.38m: Dark - pyritised cond - 37.40 to 37.4	: grey to black slit to fine sa cretions. 5m: Dark grey to black slit	to fine sand w	ravel-sized vith fine grav	slightly rel-sized	-
		37.50 - 39 38.00 38.50	9.00	D D — D — -	100	100	80						Lightly pyritis Ari 37.49m; sz very tight, cle 37.43m; Fine Ari 37.49m; sz slightly polish 37.49m; Dark pyritised conc Ari 37.55m; fis very tight, cle 47.37.65m; fis plean, very st Ari 37.65m; fis plean, very st Ari 37.55m; particular plean, very st Ari 37.55m; fis plean, very st Ari 37.55m; fis plean, very st Ari 38.0m; particular Ari 38.0m; particular Ari 38.0m; particular Ari 38.30m; particular Ari 38.38m; p	an being yely to leach still de concretions. Ib vertical fissure. 80 degr an, very stiff, unweathered gravel-sized shell fragmer ib horizontal fissure. 5 deg ed, very tight, clean, very grey to black silt to fine sa- retions. sure. 6 degree dip. Smooi fit, unweathered ing of light brown slightly arting of light brown slightly arting of light brown slightly arting of light brown slightly in mithick layer of light brown iff, unweathered. arting of light brown slightly intre. 65 degree dip. Smooi fit, unweathered. arting of light brown slightly intre. 65 degree dip. Smooi fit, unweathered. arting of light brown slightly arting of light brown slightly intre. 65 degree dip. Smooi	e dip. Smootl hts ree dip. Smootl ints inter dip. Smootl inter di	h, planar, sli h, planar, sli tred. ravel-sized . lulating, sligi htty polishec LAY. and is fine. htty polishec and is fine.	ghtly polished, undulating, slightly htly polished, d, very tight, liameter. d, very tight,	38 -
Depth Base Diameter Depth Base Diameter Depth Base Diameter Depth Base 6.50 150 <td colspan="6">h Base Duration Tool Depth Top Depth Base Inclination Orientation D</td> <td>Depth Top Depth Base</td> <td>Туре</td> <td>Colour</td> <td>Min (%)</td> <td>Max (%)</td>							h Base Duration Tool Depth Top Depth Base Inclination Orientation D						Depth Top Depth Base	Туре	Colour	Min (%)	Max (%)	
Rema	rks																	
1																1	_	_



								R	otai	ry C	ore Log	
Geo Project	-Environ Name: Lo	mental ondon Water Rec	ycling (L	WR)		0	Client: Th	ames Water	Utilities Ltd	1	Date: 28/11/2024	
Locatio	n: London	1				0	Contracto	r:			Co-ords: E516954.42 N173051.93	
Project	No. : GE2	21665				C	Crew Nan	ne:			Drilling Equipment:	
Bo	orehole Nu	umber	Hole	е Туре	•			Level		Logged	d By Scale Page Number	
	MT-025-	35	CF	P+RC	• • • • • •		5 تے کے	.88m AoD		JH / KOD	D / TL 1:20 Sheet 11 of 17	
Well	Water	(m)	/FI	TCR	SCR		Diamet Recove (SPT)	(m)	(m)	Legend	Stratum Description	
	39.00 39.00 39.00 - 40.50 D 39.50 D 100 100 40.00 D										Very stiff fissured very thinly laminated brownish grey silty CLAY. With occasional partings. [Preliminary London Clay Formation subdivision A3]. LONDON CLAY FORMATION At 38.65m: parting of light brown slightly sandy silt. Sand is fine. At 38.65m: parting of light brown slightly sandy silt. Sand is fine. At 38.65m: parting of light brown slightly sandy silt. Sand is fine. At 38.65m: issure. 0 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 38.95 to 39.0m: light brown very silty CLAY. 39.0 to 38.65m: multiple extremely closely spaced (15-(30)-60mm) subparallel subhorizontal fissures. 0 to 20 degree dips. All smooth to slightly rough, planar to slightly undulating, slightly polished, very tight, clean, very stiff, unweathered. Some fissures have light grey or dark grey to black silt to fine sand on fissure surfaces. 39.0 to 39.25m: subvertical fissure. 00 degree. Smooth, undulating, slightly polished, very tight, clean, very stiff, unweathered. 39.40 to 39.45m: subvertical fissure. 80 degree. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 39.40 to 39.45m: Subvertical fissure. 80 degree. Smooth, planar, slightly polished, very tight, unweathered. Terminates against fissure in fissure set from 39.40 to 39.45m. Multiple extremely closely very closely spaced partings of light grey sill to fine sand. At 40.05m: Parting of dark grey to black silt to fine sand with fine gravel-sized slightly pyritised concretions. At 40.05m: sub horizontal fissure. 0 degree dip. Smooth, planar, slightly polished, ver	
		40.50 40.50 - 42.00	D				-100mm				At 40.30 to 40.5m: multiple extremely closely to very closely spaced	-
		41.00	D	100	100	33					At 40.85m: Dark grey to black silt to fine sand with fine gravel-sized slightly pyritised concretions. 41 Purple 41 At 41.15m: Dark grey to black silt to fine sand with fine to medium gravel-sized slightly pyritised concretions. 41	-
		41.50	D								41.40 to 41.55m: Slightly sandy.	-
		42.00 42.00 - 43.50	D				-100mm				Algo to 41.95m: subvertical fissure. 80 degree. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 2000000000000000000000000000000000000	- - - - -
Hole Depth Bas	Diameter se Diamete	Casing Diame r Depth Base Diam 6.50 15	ter Dep	oth Top	Depth I	Chisel Base	ling Duration	Tool Dep	Inclinat	n Base Inclinatio	Itation Drilling Flush Dring Flush Colour Min (%) Max (*	(%)
Rema	rks											



Geo	-Environ	mental																	
Project	Name: Lo	ondon Water Rec	ycling (L	WR)		C	Client: Th	ames Wate	er Utilit	ies Ltd				Date: 28	/11/2024				
Locatio	n: London	I				C	Contracto	or:						Co-ords:	E516954	.42 N1730	51.93		
Project	No. : GE2	21665				C	Crew Nar	ne:						Drilling E	Equipment				
Bo	orehole Nu	umber	Hole	е Туре	;			Level			L	.ogged I	Ву		Scale			Page Num	er
	MT-025-	35	CF	P+RC			5	5.88m AoD			JH	I / KOD	/TL		1:20			Sheet 12 of	17
Well	Water	Depth (m)	Type /FI	C	orin	g ROD	Jiameter Recovery (SPT)	Depth (m)	L	evel (m)	Le	gend		S	tratum D	Descripti	on		
		42.50	D								X		Very sti silty CL Londor LONDC At 42.30m: pa 42.30 to 42.4 degree dips. unweathered. At 42.33m: Do	iff fissured AY. With Clay For DN CLAY Anting of light Om: three ex Smooth, plar ark grey to b.	I very thinl occasional mation sul FORMATI brown silt to t tremely closed har, slightly po lack silt to fine	y laminate l partings. bdivision A ON fine sand. lished, very ti e sand with fin	ed brow [Prelin A3]. parallel ight, clea	wnish grey ninary fissures. 30 n, very stiff, -sized slightly	
		43.00	D	100	100	67							pyritised conc 42:40 to 42:4 tight, clean, v against fissur At 42:45m: Di slightly pyritis 42:58m: Sligh thick. At 42:75m: pa fine gravel-siz 42:77 to 43:20 sand. 42:75 to 43:50	retions. 1m: fissure. S ery stiff, unw e at 42.30 to ark grey to b. ed concretio. ty pyritised arting of light red slightly p 0m: extreme. m: Core slipr	30 degree dip eathered. Dip 42.40m. lack silt to fine rs. dark brown lig brown and da yritised concru y closely space concrutised concru	Smooth, pla, s in opposite s sand with fir nite. Roughly ark grey to bla etions. ced partings o o determine d	nar, sligh direction ne to med 7 30mm i ack silt ar of light br in angle	ntly polished, very to and terminate dium gravel-sized in diameter, 3mm nd fine sand with rown silt and fine of discontinuities	s
		43.50 43.50 - 45.00	D				-100mm						43.50 to 43.9 sand. At 43.60m: Dr. 43.60 to 43.6 planar, slight!	0m: extreme ark grey to b. rretions. 1m: two subµ y polished, v	y closely span lack silt to fine parallel subho ery tight, clean	ced partings of sand with firm rizontal fissur n, very stiff, u	of light br ne gravel res. 0 deg nweathe	rown silt and fine -sized slightly gree dip. Smooth red.	
		44.00	D								X X X X X X X X X X		At 43.85m: Dr pyritised conc At 43.88m: fir 44.05 to 44.1. slightly polish	ark grey to b cretions. ae gravel-size 5m: three su ed, very tigh:	lack silt to fine ed pocket of li bparallel fissu t, clean, very s	e sand with fin ght brown silt res. 20 degre stiff, unweath	ne gravel and fine ne dip. Sr ered.	-sized slightly sand. nooth, planar,	44
		44.50	D	100	100	73							44.35 to 44.4 44.55 to 45.0 subhorizontal slightly polish 44.65 to 44.6	5m: Occasio 0m: multiple fissures. 0 c ed, very tigh 7m: partings	nal fine to coa extremely clo. egree dips. A t, clean, very : of light brown	rse sand-size sely spaced (Il smooth, pla stiff, unweath sitt and fine s	ed shell f 25-(40)-t nar to sli ered sand.	ragments 60mm) subparalle ightly undulating,	- - - - - - - - - - - -
		45.00 45.00 - 46.50	D				-100mm					× – × – × – × – × – × – × – × – × – × –	44.78 to 44.8	0m: partings 0m: two subp	of light brown parallel subho	silt and fine s rizontal fissur	sand res. 0 deg	gree dips. Smoot	n, 45 -
		45.50	D	100	100	93							45.06 to 45.1 45.06 to 45.1 slightly polish at 45.15m:1(Very stiff becz 45.21 to 45.2 tight, clean, v 45.23 to 45.3 degree dips.: clean, very st 45.40 to 45.4 45.55 to 45.6 planar, slightl At 45.50m: su polished, very 45.95 to 50.0 sand At 45.96m: su	rgring polisfié rgring polisfié del, very tigh fissures at 4 00mm thick r. mming extren Am fissures. ery stiff, unwather Smooth, plar Smooth, plar Smooth, plar Smooth, plar Smooth, plar Smooth, plar Smooth, plar fig. unweather Smooth, plar Smooth, plar	v, very tight, f. v, very tight, f. af fissure. 30 5.06 to 45.10 5.06 to 45.10 6.06 to 45.10 6.06 to 45.10 6.06 to 45.10 6.06 to 45.10 6.06 to 45.10 7.06 to 45.100 to	wean, very st degree dips. stiff, unweath- m. ong claystone ong claystone ong claystone sely spaced s undulating, sli sitt and fine s ures. 0 degren , very stiff, s degren , very stiff, e degren sand with fin ree dip. Smoc veathered.	III, unwe, Smooth, Smooth, ered. Dip direction subparall ghtly pol sand e dips. B nweathe e gravel oth, plana fight bro oth, plana	unered. undulating, is perpendicular i polished, very to fissures at el fissures. 0 to 1 lished, very tight, lished, very tight, lished, very tight, lished, very tight, lished, very tight, ar, slightly wwn silt and fine ar, slightly	0
		40.00									×	×—	At 46.05m: fis	iff, unweathe	ree dip. Smo red.	oth, planar, sl	ightly po	lished, very tight,	46 -
Hole Depth Bas	Diameter se Diamete	Casing Diame r Depth Base Diam	ter neter Dep	oth Top	Depth B	Chisel Base	ling Duration	Tool	Depth To	Inclination p Depth	on an Base	d Orienta Inclination	ation n Orientation	Depth Top	Depth Base	Drilling Type	Flush Color	ur Min (%)	Max (%)
		6.50 15	50																
Rema	rks																		_



ion: Londor ct No. : GE2	1																
ct No. : GE2	-				C	Contracto	r:					Co-ords: E5	516954.4	2 N1730	51.93		
	21665				(Crew Nan	ne:					Drilling Equi	ipment:				
Borehole N	umber	Hol	е Турє	;			Level			Logged I	Ву	ç	Scale		P	age Numb	er
MT-025-	-35		2+RC			5	.88m AoD		J	H / KOD	/ TL		1:20		SI	neet 13 of	17
II Water	Depth (m)	Type /FI	TCR	SCR	g RQD	Diamete Recover (SPT)	Depth (m)	Lev (n	/el L 1)	egend		Stra	tum De	escriptio	on		
	46.50 46.50 - 48.00			-100mm			<u></u>		Very stif sitty CLJ London LONDO 46.15 to 46.16 degree dips. S unweathered. No recovery	ff fissured ve AY. With occ. Clay Forma: N CLAY FO m: multiple extre imooth, planar, s m: Light brown s	ery thinly asional p tion sub RMATIO emely close lighty polis silt to fine s	laminate partings. division A N Iv spaced s ined, very tig and.	d brownis [Prelimin: 3]. ubparallel fis ubparallel fis yht, clean, vo	sh grey ary ssures. 0 to 1 ery stiff,	,		
47.00 D 90 90 47.50 D									<u> </u>		47.15 to 47.70 dips. Smooth, very stiff, unwe	m: multiple subp planar to slightly pathered.	iple subparallel subhorizontal fissures. 0 to 10 degree o slightly undulating, slightly polished, very tight, clean 4.				
	48.00 48.00 - 49.50	D				-100mm			4 1 4 1 4 1 4 1 4 1 4 1		147.80 to 47.81 diameter. At 47.85 to 47. Smooth, undu At 47.95m fiss tight, clean, ve 48.0 to 49.20n At 48.03m: Fin At 48.12m: Fin	m: Dark grey to 87m: two fissure lating, slightly po sure. 0 degree di ry stiff, unweath r, frequent partin re gravel-sized p te gravel-sized p	black slight es. 30 degn lished, very jo. Smooth, ered. ngs of light nyritised noo pyritised noo	lly pyritised ee dips, dipj y tight, clear undulating, brown silt ar dule dules.	concretion, & ping in oppo n, very stiff, u slightly poli nd fine sand	30mm in site directions inweathered. shed, very	
	48.50	D	93	93	67				4 X X X X		At 48.32m: Py 48.56 to 48.60 fissures. 0 deg very stiff, unwe	ritised nodule, 40 m: multiple extre rree dips. All smo eathered.	Omm diame emely close ooth, plana	eter, 5mm th Iy spaced s r, slightly po	ick. ubparallel su lished, very	ıbhorizontal tight, clean,	
	49.00	D									48.77m: Slight thick. 48.80 to 49.05 fissures. 0 to 5 polished, very At 49.12m: pai pyritised concr At 49.15m: Pyr	ly pyritised dark im: multiple extre 5 degree dips. All tight, clean, very ritings of light bro retions ritised nodule, 20	brown ligni emely close I smooth, p y stiff, unwe own silt and <u>Omm diam</u> e	te. Roughly ly spaced s lanar to slig athered. fine sand w eter, 5mm th	20mm in dia ubparallel su htly undulatii vith coarse su ick.	ameter, 2mm ubhorizontal ng slightly and-sized	
	49.50 49.50 - 51.00	D				-100mm			<u> </u>		At 49.41m: sub polished, very At 49.45m: two undulating, slig 49.75 to 49.85 polished, very	bhorizontal fissu tight, clean, very o subparallel fiss ghtly polished, ve m: subvertical fis tight, clean, very	re. 5 degree y stiff, unwe sures. 30 de ery tight, cle ssure. 90 de y stiff, unwe	e dips. Smo athered. egree dips. L ean, very sti egree. Smo eathered.	, recovered oth, planar, : Both smooth ff, unweathe both, planar,	slightly , slightly red. slightly	
Hole Diameter Casing Diameter					1				F		1						\neg
					Chisel	ling		I	lination a	nd Orienta	ation			Drilling	Flush		
3ase Diamete	er Depth Base Diam 6.50 15	eter Dep 0	pth Top	Depth I	Base	Duration	Tool	Depth Top	Depth Bas	e Inclinatio	on Orientation	Depth Top De	pth Base	Туре	Colour	Min (%)	N

Geo	-Environ	mental										<u> </u>		LUY							
Project	Name: Lo	ndon Water	r Recy	cling (L	WR)		C	Client: Tha	ames Wat	er Utilitie	es Ltd			Date: 28/11/2024							
Locatio	n: London						C	Contracto	r:					Co-ords: E516954.	42 N17305′	1.93					
Project	No. : GE2	1665	-				C	Crew Nam	ie:		_			Drilling Equipment:							
Bo	MT-025-	umber 35		Hole	e Type +RC	•		5	Level			Logged	By / TI	Scale		Pa She	ge Numbe eet 14 of 1	er 7			
	Matan	Depth	n	Туре	C	orin	g	very T)	Depth	Le	evel			Otratura D		-					
vveii	vvater	(m)		/FI	TCR	SCR	RQD	Diam Reco (SF	(m)	(1	m)	Legend		Stratum D	escription	1 					
		50.00		D									Very sti silty CL Londor LONDO	AY. With occasional Clay Formation sub ON CLAY FORMATIO	y laminated partings. [F odivision A3] ON	brownisi Prelimina].	h grey ry	50			
		50.50		D	100	100	73						At 50.15m: cc 141 50.23m: 24 50.24 to 50.4 polished, very At 50.30m: sc polished, very 50.35 to 50.4 light, clean, very At 50.55m: fis clean, very st clean, very st fissures. 0 to clean, very st	Parse sand-sized to fine greating thick moderately strong fine subvertical fissure. 90 tright, clean, very stiff, unwith the very stiff, unwith the very stiff, unweathered. Sin: fissure. 45 degree dip. Smoot fif, unweathered. Sure. 10 degree dip. Smoot fif, unweathered. Sure. 10 degree dip. Smoot fif, unweathered. Sin: multiple extremely close to degree dips. Smoot fif, unweathered. Sin: multiple extremely close to degree dips. All smooth fif, unweathered.	avel-sized pyritis ag claystone degree. Smooth veathered. ee dip. Smooth, planar Smooth, planar, sligh oth, planar, sligh oposite direction rely spaced sub , planar, slightly	n, undulating undulating r, slightly po tly polished to fissure a parallel sub polished, v	g, slightly , slightly blished, very l, very tight, l, very tight, at 50.55m. horizontal very tight,				
		51.00 51.00 - 52	2.50	D				-100mm					-					51 —			
		51.50		D					51.10 51.23	-4: -4:	5.22		Very sti [Prelim LONDC <u>61.10 to 51.2</u> Extrem CLAY. I [Prelim	Very stiff brownish grey silty slightly sandy CLAY. [Preliminary London Clay Formation subdivision A2]. LONDON CLAY FORMATION 51.010 51.23m: Fine to medium sand-sized shell fragments. Extremely weak thinly laminated brownish grey silty CLAY. Laminations indistinct becoming more distinct. [Preliminary London Clay Formation subdivision A2].							
	51.50 D																				
		52.00		D	100	100	53		52.20	-41	6.32		At 51.70m: Fi At 52.1m: fiss clean, very st 52.14 to 52.1 Very tight, cle Extrem [Prelim LONDC	n pieces of y polished, ating, slighti ndy CLA ibdivision n lingite	r lignite. very tight, ly polished, Y. n A2].	52					
		52.50 52.50 - 54	4.00	D				-100mm				×	52.55 to 52.5	8m: two subhorizontal fissu	ires. 0 dearee d	lips. Both sr	mooth.				
		53.00		D	100	100	93		52.85	-46	6.97		52.70 to 52.8 52.70 to 52.8 Slightly more d subdivi LONDC 52.85 to 62.2 52.85 to 62.2	y polished, very tight, clear 5m: fine gravel-sized pocke ely weak thinly lamin sandy CLAY. Lamin istinct. [Preliminary I sion A2]. DN CLAY FORMATI 2m: fine sand-sized to fine 9m: two subhorizontal fissu	ne sand. silty oming ion ht brown silt undulating,	53 —					
		53.50	-	D									Siightly polish At 53.3m: sub slightly polish 53.4m: subho polished, very 53.61 to 53.6 Smooth, sligh unweathered.	ea, very tight, clean, very s horizontal fissure. 0 degree ed, very tight, clean, very s rizontal fissure. 0 degree o v tight, clean, very stiff, unw Sm: two subparallel subhor thy undulating, slightly polis	tutt, unweathere e dip. Smooth, s titff, unweathere lip. Smooth, slig veathered. izontal fissures. shed, very tight,	ed. slightly undu ed. htly undula htly undula 0 to 10 deg clean, very	ulating, ting, slightly gree dip. stiff,				
Hole Diameter Casing Diameter Cl							Chiselling Inclination and Orientation Drilling Flush							Main (01)							
Depth Base Diameter Depth Base Diameter Depth Top Depth Base 6.50 150							Base	Duration	1001	Uepth Top	Depth	Base Inclinatio	on Orientation	Depth lop Depth Base	Туре	Colour	MIN (%)	Max (%)			
Rema	rks																				



Rotary Core Log

Geo	Environ	mental						R	lota	ry		ore	LO	g				
Project	Name: Lo	ndon Water Rec	ycling (L	WR)		C	lient: Th	ames Wate	er Utilities L	_td			Date: 28	3/11/2024				
Locatio	n: London	l				С	Contracto	r:					Co-ords	: E516954	4.42 N1730	051.93		
Project	No. : GE2	21665				С	Crew Nar	ne:					Drilling I	Equipmen	t:			
Bo	orehole Nu MT-025-	umber 35	Hole CF	e Type P+RC	9		5	Level 5.88m AoD		,	Logged JH / KOD	By / TL		Scale 1:20		F	age Numbe	er 17
Well	Water	Depth (m)	Type /FI	C	orin	g	iameter ecovery (SPT)	Depth (m)	Leve (m)	el L	egend		S	Stratum I	Descripti	on		
		54.00 54.00 - 55.50	D				-100mm	54.00	-48.12	2		Extrem slightly more di subdivis LONDC dean.very sti diameter, 5m [Prelimi LONDC	ely weak sandy C istinct. [P sion A2]. DN CLAY ure. 10 deg <i>m</i> thick. ely weak in ary Lon DN CLAY	thinly lam LAY. Lamii reliminary FORMAT ree dip. Smoo ared. lack silt and fi brownish idon Clay FORMAT	inated bro nations inc London C ION oth, planar, slig ine sand. Pyrit grey silty s Formation ION	wnish gre listinct be lay Forma ghtly polishe tised nodule, sandy CL subdivisi	y silty coming ation d, very tight, 15mm AY. on A2].	54
		54.50	D	100	100	87						At 54.35m: da	ibhorizontal tight, clean	fissure. 0 deg , very stiff, un	15mm in diar	neter, 1mm t	ng, slightly hick.	
		55.00	D					54.95	-49.0	7		dips. All smoo unweathered. At 54.88m: pa Extrem [Prelimi	arting of light ely weak	t brown silt ar brownish don Clay	nd fine sand grey silty v Formation	very sand subdivisi	y CLAY. on A2].	55 -
		55 50					100	55.15	-49.2			EXtrem Slightly more di Subdivis	ely weak sandy C istinct. [P sion A2]. <u>DN CLAY</u> Bm: fissure.	thinly lam LAY. Lamin reliminary FORMAT	inated bro nations inc London C ION	wnish gre listinct be lay Forma	y silty coming ation polished, very	
		55.50 55.50 - 57.00					-100mm					rignt, clean, vi 55.25 to 55.30 At 55.35m: fis clean, very sti 55.37 to 55.40 very tight, clea At 55.6m: fiss clean, very sti 55.64 to 55.70	ery stiff, unv Dm: pocket of sure. 50 de fiff, unweathe Dm: fissure. an, very stiff ure. 10 deg fiff, unweathe Bm: two fiss	veathered. of light brown gree dip. Smo ered. 50 degree dip 5, unweathere ree dip. Smoo ered. ures. 30 degr	silt and fine s poth, planar, s p. Smooth, un d. pth, planar, slig ee dips, dippin	and. lightly polish dulating, slig ghtly polishe ng in opposit	ed, very tight, htly polished, d, very tight, e directions	
		56.00	D	100	100	87						At 55.75m: fis polished, very At 55.75m: fis very tight, clea 55.8 to 56.0m 56.05 to 56.44 subparallel su undulating, sli Extrem [Prelimi	tight, clean sure. 10 de clan, very stift core reco m: multiple bhorizontal ghtly polish ely weak nary Lon	, very stiff, un gree dip. Smo f, unweathere vered destruct extremely cle fissures. 0 to ed, very tight, brownish idon Clay	weathered. both, slightly u <u>d</u> . <u>tured by drillir</u> osely spaced to 10 degree dig <u>clean, very si</u> grey silty s Formation	ndulating, sl. ng. Slightly g. to very close os. All smoot sandy CL. subdivisi	ghtly polished, eenish grey. y spaced h, slightly ared. AY. on A2].	56
		56.50	D					56.40	-50.52	2		56.040 to 56.7 subhorizontal slightly polishu At 56.60m: pa 56.90 to 57.0r 56.98 to 57.0r 56.98 to 57.0r diameter, 3 to At 57.08m: fis clean, very sti Extremo	70m: multipl fissures. 0 ed, very tigh orting of light ocket of light n: greenish 5m: Slightly 10mm thick scure. 30 de iff, unweathor ely weak	e extremely c to 20 degree (t, clean, very t brown silt an grey. pyritised dark c. gree dip. Smo gree d. brownish	Josely spaced dips. All smoo <u>v</u> stiff, unweath ad fine sand. 2 booth, planar, s grey silty v	I spaced sub th, slightly u ered. 5mm diamet . Roughly 15 lightly polish Very sand	oarallel idulating, er. i to 60mm in ed, very tight, y CLAY.	
		57.00 57.00 - 58.50	D				-100mm	57.20 57.35	-51.3; -51.4			[Prelimi LONDC Extrem grey sil distinct subdivis LONDC At 57.35m: fis clean, very sil to fine gravel- di 57.45m: fis	inary Lon DN CLAY ely weak ty CLAY. [Prelimi sion A2]. DN CLAY sure. 10 de fff, unweath ring of dari sized slight sure. 30 de	don Clay FORMAT fissured tl Laminatio nary Lond FORMAT gree dip. Smo ered. k grey to blac. y pyritised co gree dip. Smo	Formation ION hinly lamin on Clay Fo ION <i>k</i> silt to fine sa <i>mcretions</i> . 50th, undulatir	subdivision ated brow ct becomin prmation lightly polishing and with coar ng, slightly pol	n A2]. /nish ng more ed, very tight, se sand-sized bilished, very	57
		57.50	D-D-	-	-					Ê	<u> </u>	⊣tight, clean, ve	ery stiff, unv	veathered.				
Hole	Diameter	Casing Diame	ter		(L Chisell	ling			nation	and Orient	ation		IB	Drillin	g Flush		
Depth Bas	se Diamete	r Depth Base Diam 6.50 15	eter Dep 0	oth Top	Depth I	Base	Duration		Depth Top De	epth Ba	se Inclinatio	on Orientation	Depth Top	Depth Bas	e Type	Colour	Min (%)	Max (%)
Rema	rks		I			I						I		1				_



Geo-l	Environ	mental					1.	Ni- 1								144 1000 /				
Project N	Name: Lo	ndon Wate	r Recy	/cling (L	.vvR)			Jient: Th	ames Wa	ter U	tilities Ltd				Date: 28	5/11/2024		0.5 / 5 -		
Location	: London						C	Contracto	or:						Co-ords:	: E516954	1.42 N173	051.93		
Project N	No. : GE2	1665	1	<u> </u>			C	Crew Nar	ne:					_	Drilling E	Equipmen	t:			
Bor	MT-025-	umber 35		Hole CF	e Type P+RC	9		5	Level 5.88m AoE)		Log JH / ł	Iged E KOD /	By / TL		Scale 1:20			Page Numb Sheet 16 of	ber 17
Well	Water	Dept (m)	h	Type /FI	C	SOR	g ROD	Diameter Recovery (SPT)	Depth (m)	ו	Level (m)	Lege	end		S	tratum I	Descript	tion		
		58.00)	D	100	100	87		58.40		-52.52			Extreme grey silt distinct. subdivis LONDO 57.60 to 57.75 tight, clean, ve from 57.70 to 58.40 subparallel sul undulating, sile from 57.70 to 58 At 58.25m: fos Extreme	ely weak y CLAY. I [Prelimir ision A2]. Nn CLAY im: fissure. 70 with control of the bhorizontal phtly polishe fissure. 70 rsy stiff, unw 58.40m.	fissured ti Laminatio hary Lond FORMAT 50 degree dij eathered. extremely cit. digser dip. eethered. degree dip. eeathered. teathered. d, 40mm leng brownish	hinly lamii ns indistir on Clay F ION 5. Smooth, pin Toely spaced 10 degree d clean, very Smooth, pian Smooth, pian Tomoth, pian Tomoth	nated bron not becom ormation lanar, slightl, to very clos jp. Smooth, stiff, unweat ar, slightly pooth ends ag armeter. sandy Cl	ownish ning more y polished, very sely spaced slightly hered. oolished, very gainst fissures	58 -
		58.50 58.50 - 6) 0.00	D				-100mm						[Prelimit LONDO At 58.55m: fiss clean, very stif [At 56.60m: pool [58.39-58.40m:] 0 degree dips	nary Lono N CLAY sure. 0 degru ff, unweathe cket of black	don Clay FORMAT ee dip. Smoo red. k fine sand hely closely s th. planar, sli	Formatior ION oth, planar, si - - - - paced subpa	n subdivis lightly polish rallel subho d verv tight	sion A2]. hed, very tight, rizontal fissures	
		59.00	59.50		100	100	87		59.20		-53.32			unweathered. 59.05 to 59.10 dips. Both smo unweathered. Extreme CLAY. L Clay Fo LONDO 59.2 to 59.3m: Both smooth, 6	om: two extre- poth, undula ely weak aminatio rmation s <u>N CLAY</u> two very cluudulating, s	emely closely titing, slightly thinly lam ns indistir subdivisio FORMAT osely spaced slightly polish	spaced sub polished, ver inated bro nct. [Prelir n A2]. [ON subparallel ned, very tigh	parallel fissi y tight, clear pwnish gr ninary Lc fissures. 10 t, clean, ver	ures. 10 degree n, very stiff, rey silty ondon degree dips. ry stiff,	59
		59.50 60.00							59.60		-53.72			unweathered. At 56.60m: len 59.4 to 59.55n degree dips. A very stiff, unwe Extreme [Prelimin LONDO At 59.67m: pai 59.80 to 59.85	ns of shell fra n: multiple e ull smooth, si eathered. ely weak nary Lono N CLAY rting of dark im: pocket o	agments. extremely closs lightly undula brownish don Clay FORMAT grey to blac. of greenish gr	sely spaced s ating, slightly grey silty Formation ION k silt to fine s ey fine sand.	subparallel f polished, ve sandy Cl subdivis	iissures. 0 to 10 ery tight, clean, LAY. sion A2].	
		60.00 60.00 - 61.50 60.50 61.00 61.00 - 62.25		D				-100mm					At 59.67m: parting of dark grey to black silt to fir 59.80 to 59.85m: pocket of greenish grey fine sa X At 60.25m: pocket of light brown silt and fine sand diameter. X X 60.42 to 60.45m: light brown silt and fine sand.		d fine sand. ot fragment, 	>100mm	long, 6 to 10mi	n 60 -		
				60.50 61.00 61.00 - 62.25		D	93	93	67	100mm						61.0 to 61.5m: 61.15 to 61.20 and greenish g Extreme grev. ora	Core dropp m: fine to m grey clay fra ely weak angish br	bed. nedium sand- gments. multicolou rown and	- sized black f ured (bluis red) silty f	ragments ar sh grey, g slightlv sa
Hole	Diameter	Casing	er			Chisel	ling	61.22		-55.34	on and O		CLAY. [LAMBE	Lambeth TH GRO	Group]. UP	,, v		,		
Depth Base	Diamete	r Depth Base	Diam	eter Dep	oth Top	Depth I	Base	Duration	Tool	Dept	h Top Depth	Base Inc	linatior	n Orientation	Depth Top	Depth Bas	e Type	Colour	Min (%)	Max (%)
Remar	ks	6.50	150	0																


Project	Name		Recyclin	n (\\/D\		r	lient Th	amee W/a	iter I Itiliti	00 t4			Date: 20	/11/2024				
	n: London		vecyclini	J (LVVR)				aries wa					Co order	E516054	42 N173	051.03		
Droioot		01665						<i>n</i>					Drilling F		.42 1173	001.95		
B	prehole Nu	umber		Hole Type	e			Level			Logaed	Bv		Scale		F	Page Numb	ber
	MT-025-	35		CP+RC			5	5.88m Ao[)		JH / KOD	/ TL		1:20		S	heet 17 of	17
Well	Water	Depth (m)	Ty /F	pe (Corin	g RQD	Diameter Recovery (SPT)	Deptl (m)	n L(evel m)	Legend		S	tratum D	Descript	ion		
		61.50 62.00	C	75	60	60	_					Extrem grey, o CLAY. LAMBI	End of Borehole at 62.250m		eenish ndy	62 -		
							_	62.25	-5	6.37			En	d of Boreho	ole at 62.2	250m		_
																		63 -
																		64 -
Hole Depth Ba	Diameter se Diamete	Casing Dia r Depth Base 6.50	ameter Diameter 150	Depth Top	Depth	Chisel	ling Duration	Tool	Depth Top	nclinati	on and Orient Base Inclinatio	ation on Orientation	n Depth Top	Depth Base	Drillin Type	g Flush Colour	Min (%)	65 - Max (%)

		Unit Hurs BN6	7, Danw tpierpoii 9GI	vorth Farm nt		Во	reh	ole Loa	Borehole No. MT-026-	o. 35
Geo-E	nvironr	nentalwww	.gesl.ne	t					Sheet 1 of 1	11
Projec	t Name:	Londo	on Water I	Recycling (LWR)	Project No. GE21665		Co-ords:	517002E - 172740N	Hole Type CP+RC	;
Locatio	on:	Londe	on		Energy Ratio	(%):	Level:	7.47	Scale	
					Driller's Initial: Rig Ty	MY			1:20	/
Client:		Tham	ies Water	Utilities Ltd	Dando 2	2000	Dates:	29/01/2025 - 07/02/2025	KOD+TL	,
Well	Water Strikes	Sam	ple and I	n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description		
	0.3	0.30 0.30 - 0.35 0.30 0.80 0.80 - 0.85 0.80	ES B PID ES B PID	PID=0.0ppm PID=0.0ppm	0.40	7.07		Grass overlying MADE GROUND comp brown slightly gravelly SAND with frequ occasional brick fragments. Gravel is fir subangular flint. MADE GROUND Medium dense orangish brown fine to m with black flecking and some dark brown organic) staining. [Possible REWORKEI MADE GROUND 0.4 to 1.0m: some rootlets.	rising dark ent rootlets and le to medium nedium SAND n (suspected D GROUND.]	
		1.20 1.20 1.20 - 1.65 1.20 1.20 1.65 - 2.00	B ES D SPT PID B	N=7 (1,2/2,2,2,1) PID=0.2ppm	,					1
		2.00 2.00 - 2.45 2.00 2.00	ES D SPT PID	N=27 (1,2/3,7,8,9 PID=0.1ppm)					2
		2.60 - 3.00 3.00 3.00 - 3.45 3.00 3.00 4.00	B ES B CPT PID	N=28 (1,3/5,6,8,9 PID=0.1ppm	2.60	4.87 Medium dense orangish brown s occasional clay pockets. Sand is is fine to coarse sub angular film REWORKED GROUND.] MADE GROUND		Medium dense orangish brown sandy G occasional clay pockets. Sand is fine to is fine to coarse sub angular flint. [Possi REWORKED GROUND.] MADE GROUND	RAVEL with coarse. Gravel ble	3
		4.00 - 4.45	В				109 1 77 18 18	1		<u> </u>
Diamet 200 150	Casing Water Strikes (mbgl) Chiselling (m Chiselling (m ameter Depth (m) Depth Strike Rose to Depth from I 200 7.50 150 8.50				th to Hand dug gro 40.5m.	ound level to 1.2	2m. Cable Percu	ussion 1.2 to 8.5m. Rotary Cored (Geobore-S) 8.5 to	AGS	3

		Unit 7	, Danw	orth Farm					Borehole No.
	9	Hurstp BN6 9	oierpoir GL	nt		Bo	reh	ole Log	MT-026-35
Geo-E	Invironn	nentalwww.g	gesl.ne	t				0	Sheet 2 of 11
Projec	t Name:	London	Water F	Recycling (LWR)	Project No.		Co-ords:	517002E - 172740N	Hole Type
,				, , ,	GE21665	(0/)-			CP+RC
Locati	on:	Londor	1		Energy Ratio	(%): MY	Level:	7.47	Scale 1.20
					Ria Tv	'be:			Logged By
Client:		Thame	s Water	Utilities Ltd	Dando 2	2000	Dates:	29/01/2025 - 07/02/2025	KOD+TL
Well	Water	Samp	le and Ir	n Situ Testing	Depth	Level	Legend	Stratum Description	
	Strikes	Depth (m)	Туре	Results	(m)	(m)			
		4.00 4.00	CPT PID	N=18 (1,3/4,4,5,5 PID=0.3ppm	5)			Medium dense orangish brown sandy G occasional clay pockets. Sand is fine to is fine to coarse sub angular flint. [Poss REWORKED GROUND.] MADE GROUND	RAVEL with coarse. Gravel ible
		5.00 - 5.45 5.00	B CPT	N=5 (1,1/2,1,1,1) 5.00	2.47		Loose orangish brown gravelly SAND w	vith some dark
		5.20 5.20	ES PID	PID=0.2ppm				Gravel is fine to coarse sub angular flint REWORKED GROUND.] MADE GROUND	nn organic staining.
		6.00 6.00 - 6.45 6.00 6.00	ES B CPT PID	N=4 (1,0/2,1,0,1 PID=0.1ppm)				6 -
		7.00 7.00 - 7.45 7.00 7.00	ES B CPT PID	N=11 (1,2/2,2,3,4 PID=0.2ppm	4)			7.0 to 7.5m: becomes more gravelly.	7 -
		7.50	D		7.50	-0.03		Firm brown CLAY with some orange sta	ining.
		8.00 8.00 - 8.45	B ES D		7.70	-0.23		Stiff dark grey silty CLAY with some ora LONDON CLAY FORMATION	nge staining. 8 -
		8.00	CPT	N=17 (2,2/3,4,4,6	6)			-	
Diame 200 150	Casing ter Dept) 7.1) 8.1	Water Sf h (m) Depth Strike 50 50	rikes (mbgl)	Chiselling (mbg Depth from Dep	gl) Remarks pth to Hand dug gro 40.5m.	und level to 1.2	2m. Cable Percu	ussion 1.2 to 8.5m. Rotary Cored (Geobore-S) 8.5 to	AGS

Unit 7, Danworth Farm						m						Borehole N	0.				
	Ś	H E	Hurstp 3N6 9	ierpoi GL	nt					Bo	reh	ole Log	MT-026-	35			
Geo-E	nvironn	nental	www.g	esl.ne	et							<u> </u>	Sheet 3 of 1	11			
Projec	t Name:	L	ondon	Water I	Recy	cling ((LWR) Pro	oject No. 21665		Co-ords:	517002E - 172740N	Hole Type CP+RC)			
Locatio	on:		London					E	nergy Ratio	(%):	Level:	7.47	Scale				
								Dr	Iller's Initial:	MY			1:20	,			
Client:			Thames	s Water	Utilit	ies Lt	d		Dando 2	2000	Dates:	29/01/2025 - 07/02/2025	KOD+TL	/			
Well	Water Strikes	Dept	Sampl	e and I	n Sit	u Tes Re	ting sults		Depth (m)	Level (m)	Legend	Stratum Description					
		8.	00	PID		PID=	0.5pp	m			××	Stiff dark grey silty CLAY with some oran	nge staining.				
												-					
		8.50	50 - 9.00	D					8.50	-1.03		- 引 Verv stiff verv thinly laminated fissured	arevish brown	-			
												silty CLAY. [Preliminary London Clay F	ormation				
					100	100	100				×_×_×	LONDON CLAY FORMATION 8.5 to 9.1m: slightly sandy with gritty feeling when cut w	ith sharp knife. Sand is	-			
											<u>xx</u>	fine. 8.5 to 9.1m: occasional very thin lenses of dark grey fine 9.5 to 9.2m outputs length financial Signature	e sand.	-			
				_							<u>× </u>	 polished, very tight, clean, very stiff, unweathered. 	ioouri, piariar, siignuy	-			
		9. 9.00 -	00 10.50					100mm	1		× <u>×</u> ×	-		9 —			
													-				
													-				
										$\xrightarrow{\times}$ $\xrightarrow{\times}$ $\xrightarrow{\times}$		slightly polished, very	-				
		9.	50	D								At 9.4m: 10mm thick lense of extremely weak light grey. 9.4 to 9.55m: three parallel fissures. 55 degree dip. Smo	ish brown silty claystone. ooth, planar, slightly	-			
											×_×_×	At 9.48m; fissure. 10 degree dip. Smooth, planar, slight clean, verv stiff, unweathered.	baced at 15 to 30mm. http polished, very tight,				
					100	100	100				<u>x_×</u> ×	At 9.5m: fissure. 45 degree dip. Smooth, planar, polishe stiff, unweathered. Dip direction is perpendicular to set	olished, very tight, clean, very o set of three fissures at 9.4m. r, slightly polished, very tight,				
					100	100	100				<u>× </u>	 clean, very stiff, unweathered. 9.55 to 9.65m: fissure. 80 degree dip. Smooth, planar, signature. 	slightly polished, very light,	-			
											<u>× </u>	tight, clean, very stiff, unweathered. 9.65 to 9.75m: fissure. 70 degree dip. Smooth, planar, s light clean year stiff unweathered	slightly polished, very	-			
		10	.00	D							<u>x</u> x	9.4 to 9.55m: three parallel fissures. 15 degree dip. Smo olished, very tight, clean, very stiff, unweathered. Space	ooth, planar, slightly ced at 10 to 15mm.	10 -			
												9.75 to 9.8m: fissure. 65 degree dip. Smooth, planar, sli clean, very stiff, unweathered. Terminates against fissur 9.75 to 9.9m: fissure. 75 degree dip. Smooth, planar, sli	ightly polished, very tight, re. iahtly polished, very tight.	-			
												clean, very stiff, unweathered. 9.8 to 9.9m: fissure. 20 degree dip. Smooth, curved sur	face, polished, very tight,	-			
												<u>clean, very stiff, unweathered.</u> 9.85 to 9.95m: fissure. 45 degree dip. Smooth, planar, s Light, clean, very stiff, unweathered.	slightly polished, very	-			
		10	.50	D				(31)				At 9.88m: fossilised wood fragment. 5mm diameter. At 9.9m: parting of dark grey silty fine sand.	hunaliahad waxeetisht	-			
		10.50	- 12.00					100mm	1		×_×_×	 Lean, very stiff, unweathered. 10.0 to 10.4m: extremely closely fissured. 	iy polished, very light,	-			
											<u>xx</u>	10.35 to 10.5m: fissure. 85 degree dip. Smooth, planar, tight, clean, very stiff, unweathered. 10.5 to 12.0m: slightly sandy. Sand is fine. With occasion	slightly polished, very	-			
											<u>×_×_×</u>	 partings of dark grey silty fine sand. Laminations indistin 	nct.	-			
											<u>x</u> x			-			
		11.	.00	D										11 -			
		11.10	- 11.50	С										-			
					100	100	50						aliably actioned				
												tight, clean, very stiff, unweathered.	siignuy polisnea, very slightly polished, very	-			
												- tight, clean, very stiff, unweathered. At 11.7m: fissure. 45 degree dip. Smooth, planar, dull, v	very tight, clean, very	-			
		44	60									At 11.72m: fissure. 45 degree dip. Smooth, planar, dull, stiff, unweathered. Dip direction is perpendicular to fissu	very tight, clean, very ure at 11.7m.	-			
		11.	.60								×_×_×	<u>At 11.8m: fossil bivalve shell, 10mm dia</u> meter. At 11.85m: fissure. 45 degree dip. Smooth, planar, sligh	tly polished, very tight,	-			
											<u>xx</u>	 At 11.85m: fissure. 45 degree dip. Smooth, planar, sligh Lean, very stiff, unweathered. Dip direction is perpendic 	tly polished, very tight, cular to other fissure at	-			
											<u>× </u>	11.85m. At 11.9m: fissure. 5 degree dip. Smooth, planar, slightly	polished, very tight,	-			
		12	.00	D	<u> </u>			100mm	1		<u>x </u>	11.9 to 12.4m: extremely closely fissured. At 12.0m: fissure. 45 degree dip. Smooth, planar, slightl	ly polished, very tight,	12 -			
		12.00	- 13.50									clean, very stiff, unweathered. 12.0 to 13.5m: very silty, with slightly gritty feeling when Laminations indistinct	cut with sharp knife.				
				Type/FI	TCR	SCR	RQD		1		X						
Diamet	Casing ter Dept	h (m) De	Water Str epth Strike	rikes (mbgl) Rose t) to	Ch Depth fr	iselling rom	mbgl) Depth to	Remarks								
200 150	7. 8	50 50							Hand dug gro 40.5m.	ound level to 1.2	zm. Cable Perci	ussion 1.2 to 8.5m. Rotary Cored (Geobore-S) 8.5 to					
		-											AUD				

oject N	ame: Lo	ndon Water	Recycli	ing (LV	VR)		С	lient: Th	ames Wate	r Utilities Lte	t		Date: 29/01/2025 - 07/02	2/2025			
cation:	London						С	Contracto	or:				Co-ords: E517001.78 N ²	172739.62			
oject N	o. : GE2	1665					С	rew Nar	ne: MY+PJ				Drilling Equipment: Dano	do 2000+Comacc	hio 305		
Bor	ehole Nu MT-026-3	umber 35		Hole CP	Type +RC	•		7	Level 7.47m AoD		Logged KOD+	l By TL	Scale 1:20	Page	Number et 4 of 11		
/ell \	Water	Depth (m)	ו T	ype /FI	C	SCR	g	Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend		Stratum Desci	ription			
		12 50		D	1011							Very st silty CL subdivi LONDC	iff very thinly laminated fis .AY. [Preliminary London (sion C]. DN CLAY FORMATION m: fissure. 85 degree dip. Smooth	ssured greyish bro Clay Formation , planar, dull, very tight,	own clean,		
		12.00		U	100	100	100					At 12.5m; fiss stiff, unweath At 12.5m; fiss very stiff, unweath 12.55 to 13.1 degree dip. S unweathered 12.7 to 12.9m clean, very st	sure. 45 degree dip. Smooth, planar, dull, very tight, clean, very tered. ssure. 95 degree dip. Smooth, planar, polished, very tight, clean, weathered. Im: set of subparaliel fissures spaced at 30 to 80mm. 20 to 40 Smooth, planar, slightly polished, very tight, clean, very stiff, in: fissure. 85 degree dip. Smooth, planar, polished, very tight, tiff, unweathered. Smooth, planar, slightly polished, very very stiff, unweathered. Dips in opposite direction to fissure at				
		13.00		D								At 13.2m; At 13.2m; At 13.1m; fiss clean, very st clean, very st clean, very st	sure stiff, unweathered. Dips in opposite direction to fissure at sure. 40 degree dip. Smooth, planar, slightly polished, very tight, <u>liff, unweathered.</u> sure 30 degree dip. Smooth, planar, slightly polished, very tight, <u>liff, unweathered. Dip direct</u> ion is perpendicular to fissure at 13.1 <u>sedium gravel-sized patches</u> of dark grey slit.				
		13.50 13.50 - 15	5.00	D				100mm				- 13.5 to 15.0m and 200mm li 13.5 to 13.85 13.6 to 13.9r tight, clean, v	adium gravel-sized patches of dark grey silt. n: core is highly fissured, breaking easily into chunks between length. m: extremely closely fissured, very thinly laminated. m: fissure. 85 degree dip. Smooth, planar, slightly polished, very very stiff, unweathered. 15m: fissure. 70 degree dip. Smooth, planar, polished, very tig				
		14.00 14.10 - 14	I.30	D C	100	100	33					1.0010 Yery st 1.1395m: fis Yery stiff, unw 1.1410 Yery stiff, unw 1.1395m: fis Yery stiff, unw 1.1410 Yery stiff, unw	min issure in degree dip. Sindot issure. 75 degree dip. Smooth, plar weathered. m. fissure. 90 degree dip. Smooth iff, unweathered. parse gravel-sized rounded pyritise	n, painar, polished, very tight , planar, polished, very ed claystone nodule.	clean, tight,		
		14.50		D								14.3 to 14.45 clean, very st clean, very st cpoposite direct At 14.4m; fiss very stiff, m; fiss clean, very st clean, very st clean, very st clean, very st clean, very st degree dip. S unweathered very tight, clean st st st st st st st st st st st st st s	m: insure. au degree dip. Smootn fit, unweathered. Core split easily m: fissure. 80 degree dip. Smooth fit, unweathered. Core split easily ction to fissure at same depth. sure. 35 degree dip. Smooth, planar fit, unweathered. n: very closely fissured. Fissures ir mooth, planar, slightly polished, w st 20 to 50 degree dip. Sn an, very stiff, unweathered. Dip di 9 00 degree dip. Smooth planar.	, pianar, poinsned, very along this fissure. , planar, polished, very along this fissure. Dips ar, polished, very tight, , slightly polished, very in three setsSet 1_ 2 ery tight, clean, very sti noch, planar, slightly prection is perpendicular polished very tinth clear	tight, in clean, tight, 0 to 40 ff, olished, to set 1. in verv		
		15.00 15.00 - 16	5.50	D				-100mm	15.00	-7.53		stiff, unweath - At 14.7m: 100 - At 14.7m: 100 - At 14.9 to 15.0m - Clean, very st - Silty CL - Subdivi - LONDC - 15.0 to 16.5m - 15.0 to 15.2m - 15.0 to 15.2m - 15.0 to 15.2m - 15.0 to 15.2m	ed				
		15.50		D	100	95	66					15.2 to 15.3n tight, clean, v At 15.25m; fis stiff, unweath At 15.3m; fiss stiff, unweath At 15.5m; thr bolished, ven t15.7 to 15.9m; polished, ven 15.7 to 15.9m;	n: fissure. 90 degree dip. Smooth, erry stiff, unweathered. ssure. 45 degree dip. Smooth, plan ered. sure. 90 degree dip. Smooth, plan ered. ered. and fissures. 75 degree dip. 't dipt, clean, very stiff, unweather Dmm thick claystone. 'n very closely fissured. Fissures 4.	planar, slightly polished nar, dull, very tight, clea ar, dull, very tight, clear . Smooth, undulating, s ed. Spaced at 10mm. are smooth, planar, slig ed. No consistent orien	I, very In, very I, very lightly htly tations.		

Remarks



								otai	' y	U	ore	ΓΟĆ	J				
Project Name: Lo	mental Indon Water Rec	cling (L\	WR)		C	Client: Tha	ames Water	Utilities Lto	ł			Date: 29/0	01/2025 -	07/02/202	25		
Location: London					C	Contracto	r:					Co-ords:	E517001.	78 N1727	39.62		
Project No. : GE2	1665				C	Crew Nam	ne: MY+PJ					Drilling Ed	quipment:	Dando 20	000+C	omacchio 30	5
Borehole Nu	umber	Hole	e Type	•		7			l		Ву		Scale			Page Num	ber
MIT-026-	Depth	Type		orin	a	ery	.47m AoD	Level		KOD+1			1:20			Sheet 5 of	11
Well Water	(m)	/FI	TCR	SCR	RQD	Diame Recov (SP ⁻	(m)	(m)	Le	egend		St	ratum D	escripti	on		
	16.00 16.50 16.50 - 18.00 17.00 17.10 - 17.50 17.60 18.00 18.00 18.00 18.50 19.50 19.50 19.50 19.50	D D D D D D	100	66	66	- (31) 100mm					Very sti silty CL subdivis LONDC 16.2 to 16.5m polished, very At 16.25m; polished, very slighty polish at 16.45m; fis clean, very sti clean, very sti dept. 17.6 to 17.8m very tight, clean, very sti clean, very sti dept. 18.0 to 18.25p tight, clean, very sti dept. 18.0 to 18.25p tight, clean, very sti dept. 18.0 to 18.25p tight, clean, very sti dept. 18.5 to 18.7m; fiss clean, very sti dept. 18.5 to 18.25p tight, clean, very sti deft. 18.7m; fiss clean, very sti deft. 18.5 to 18.7m; fissure at sam clean, very sti At 19.7m; fiss clean, very sti fiss to 21.0m; fiss clean, very sti fiss clean, very sti fiss	ff very thin AY. [Prelim sion B2]. DN CLAY F : very closely. iir of conjugate ed, very tight, clean, v iir of conjugate ed, very tight, unive sure. 90 degree ff, unweathere iff, unweathere iff, unweathere iff, unweathere iff, unweathere iff, unweathere in fissure. 85 ery stiff, unweathere sure. 45 degree iff, unweathere sure. 45 degree iff, unweathere sure. 45 degree iff, unweathere is fissure. 85 ery stiff, unweathere is fissure. 70 ery stiff, unweathere is fissure. 85 ery stiff, unweathere is fissure. 70 ery stiff, unweathere is fissure fissure is fissure fi	ly laminat hinary Lor CORMATI(fissured. Fis- fissures. Bi- cery stiff, unwe fissures. Bi- clean, very sti- ee dip. Smoot- ded fragment legree dip. Smoot- ded (Dips in or degree dip. Smoot- ded (Dip Smoot-	ted fissurer adon Clay on sures are sm weathered. No th with 80 de tiff, unweather oth, planar, slid th, planar, slig h, planar, slig Smooth, planar Smooth, planar, slig Smooth, planar, slig Smooth, planar, slig Smooth, planar, slig Smooth, planar, slig th, planar, slig th, planar, slig smooth, planar, slig th, planar, slig smooth, plana slig th, planar, slig th, planar, slig t	d grey Forma nooth, piel o consist gree dip gree dip gree dip greed. ightly pol ightly pol ightly pol is no ot dicular tr ightly pol ightly pol ightly pol ightly pol ightly pol ightly pol is helly pol is helly helly pol is helly pol is helly helly pol is helly pol is helly pol is helly pol is helly pol is helly pol is helly pol is helly pol is helly pol is helly helly pol is helly pol is helly helly pol is helly pol is helly helly pol is helly pol is helly hell	rish brown ation anar, slightly ent orientations. . Smooth, plana lished, very tight, shed, very tight, shed, very tight, shed, very tight, shed, very tight, very tight, very tight, shed, very tight, shed, very tight, o fissure at 18.77 shed, very tight, o fissure at 18.77 shed, very tight, shed, very tight, shed, very tight, ery tight, clean, y, bound by lar, slightly shaped pieces up polished, very	n. 19
* * * * * * * * * * * * * *									×	<u>×</u> ×-	At 19.7m: fiss clean, very sti	ure. 15 degree iff, unweathere	e dip. Smoot ed.	h, planar, slig	htly polis	shed, very tight,	
Hole Diameter	Casing Diamet	ler l			Chisel	lina		Inclina	tion an	d Orients	ation			Drilling	Flush		
Depth Base Diameter 7.50 200	r Depth Base Diam 7.50 20	eter Dep 0	oth Top	Depth I	Base	Duration	Tool De	pth Top Dept	h Base	Inclinatio	on Orientation	Depth Top	Depth Base	Туре	Colou	ur Min (%)	Max (%)
8.50 150 40.50 146	8.50 15	0															





Geo-Environmental										
Project Name: London Water	Recycling (LWR)		Client: The	ames Water	Utilities Ltd		Date: 29/01/2025 - 07/02/2025			
Location: London			Contracto	r:			Co-ords: E517001.78 N172739.62			
Project No. : GE21665			Crew Nan	ne: MY+PJ			Drilling Equipment: Dando 2000+Comacchio 305			
Borehole Number MT-026-35	Hole Ty CP+R	be C	7	Level .47m AoD		Logged I KOD+T	By Scale Page Number "L 1:20 Sheet 6 of 11			
Well Water Depth (m)	Type		D Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description			
Well Water Deptition 20.00 20.00 20.50 20.50 21.00 21.00 21.00 21.00 21.50 21	.50 D .90 C 100 .90 100 .90 100	R SCR RQI 0 100 20 0 100 73	(31) 100mm	(m)	(m)	Legend x x	Stratum Description Very stiff very thinly laminated fissured greyish brown silty CLAY. [Preliminary London Clay Formation subdivision B2]. LONDON CLAY FORMATION At 19.8m: fissure. 20 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 19.85 to 20.0m: fissure. 75 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. Core split easily along this fissure. 19.85 to 20.0m: fissure. 75 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. Dip direction is perpendicular to fissure at 19.85 to 20.05m: fissure. 65 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. Dip direction is opposite to fissure at 19.85 to 20.05m: fissure. 40 degree dip. Smooth, planar, polished, very tight, clean, very stiff, unweathered. At 20.05m: fissure. 45 degree dip. Smooth, planar, polished, very tight, clean, very stiff, unweathered. At 20.05m: fissure. 75 degree dip. Smooth, planar, polished, very tight, clean, very stiff, unweathered. At 20.05m: fissure. 75 degree dip. Smooth, planar, polished, very tight, clean, very stiff, unweathered. Col to 20.50m: fissure. 75 degree dip. Smooth, planar, polished, very tight, clean, very stiff, unweathered. Col to 20.50m: fissure. 75 degree dip. Smooth, planar, polished, very tight, clean, very stiff, unweathered. Col to 20.50m: fissure. 75 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. <td 20.50m:="" 50="" 75="" col="" degr<="" fissure.="" td="" to=""><td></td></td>	<td></td>		
22.00	D		100mm	22.50	15.03		At 22.4m: fissure. 40 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered 22 Start Color Start, Starte, 60 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 22 Very stiff very thinly laminated fissured greyish brown silty CLAY. [Preliminary London Clay Formation subdivision B1]. 20 LONDON CLAY FORMATION 22.5 to 24.5m: slightly sandy and very silty. Sand is fine. Gritty feel when cut with sharp knife. Laminations indistinct. Sand content reduces with depth. Very silty below. 22.5 to 23.7m: surface of core partially washed away.	-		
23.50 23.50 23.50	.00 D 100	0 100 60		22.50	-13.03		 Bitty Delow. Bitty			
Hole Diameter Casing D	liameter	Chied	elling	I	Inclinatio	on and Orients	ation Drilling Flush			
Depth Base Diameter Depth Base	Diameter Depth To	p Depth Base	Duration	Tool De	pth Top Depth	Base Inclination	n Orientation Depth Top Depth Base Type Colour Min (%) Max (%	%)		
7.50 200 7.50 8.50 150 8.50 40.50 146	200 150									



roject	Name: Lo	ondon Water F	Recycling	g (LWR)		C	Client: Th	ames Wate	er Utilitie	s Ltd			Date: 29	/01/2025 -	- 07/02/20)25			
ocatio	n: London	l				C	Contracto	or:					Co-ords:	E517001	.78 N172	739.62			
roject	No. : GE2	21665				C	Crew Nar	ne: MY+PJ					Drilling E	quipment	: Dando 2	2000+Com	acchio 30	15	
B	orehole Nu	umber	ł	Hole Typ	be		7	Level			Logged	Ву		Scale		P	age Numb	ber	
	1011-020-	Depth	Tvi		_ Corin	a	ery	Depth	le	vel	KOD+1	L		1.20			Sheet 7 Of		
/ell	Water	(m)	/F		RSCR	RQD	Diame Recov	(m)	(n	n)	Legend		S	tratum D	Descript	ion			
		24.00 24.00 - 25.8	50 E	,			-100mm					At 24.0m: fiss stiff, unweath At 23.55m: ve At 23.55m: ve At 24.0m: fiss stiff, unweath At 24.1m: ven P4.1 to 24.5m At 24.15m: fiss ofeen, very sti At 24.2m; fiss	ff very thii AY. [Prelin sion B1]. DN CLAY ry thin lamin ure. 35 degre ered. tically alignec : with intermi sure. 30 deg with intermi sure. 30 deg ure. 45 degre	nly lamina minary Lo FORMATI ations of dark de dip. Smoo ed. ed dip. Smoo ed. se dip. Smoo	ondon Clay on grey silt. th, undulating fragment, 3 n lenses of d oth, planar, si	ed greyisf / Formatio g, dull, very ti mm diameter, ark grey silt. slightly polished ightly polished	n brown n ght, clean, ve 50mm lengti ed, very tight, d, very tight,	əry h.	
		24.50	C)	05	50				<u> </u>		At 24.2m; fiss clean, very sti same depth. At 24.3m; fiss clean, very sti 24.4 to 24.55r away. 24.55 to 24.6r tight, clean, ver	isure. 45 degree dip. Smooth, planar, slightly polished, very tight, tiff, unweathered. Dip direction is perpendicular to other fissure at tiff, unweathered. Smo extremely closely fissured, and surface of core partially washed fm: fissure. 90 degree dip. Smooth, planar, slightly polished, very very stiff, unweathered. sure. 55 degree dip. Smooth, planar, slightly polished, very tight, tiff, unweathered. sure. 60 degree dip. Smooth, planar, slightly polished, very tight, sure. 60 degree dip. Smooth, planar, slightly polished, very tight, sure. 60 degree dip. Smooth, planar, slightly polished, very tight,					∍d	
		25.00	C	95	95	50				जालालालाल		At 24.6m: fiss clean, very sti At 24.7m: fiss clean, very sti At 24.8m: fiss clean, very sti At 24.9m: fiss clean, very sti 24.9 to 25.1m tight, clean, ver	ure. 55 degre iff, unweathe ure. 60 degre iff, unweathe ure. 45 degre iff, unweathe ure. 45 degre iff, unweathe crissure. 90 ery stiff, unwe	ee dip. Smoo red. ee dip. Smoo. eed dip. Smoo. red. ee dip. Smoo. red. Dip direc degree dip. S eathered.	 a. Smooth, planar, slightly polished, very tight, b. Jip direction is perpendicular to fissure at 24.8m. b. Smooth, planar, slightly polished, very tight, b. Jip direction is perpendicular to fissure at 24.8m. b. Smooth, planar, slightly polished, very tight, b. Jip direction is perpendicular to fissure at 24.8m. b. Smooth, planar, slightly polished, very tight, b. Smooth, planar, dull, very tight, clean, very 				
		25.50 25.50 - 27.0	00)			- (50) 100mm					At 25.35m: fis stiff, unweath 25.4 to 28.4m (enses of dark slightly sandy At 25.45m: fis degree dip. Si	sure. 50 deg ered. :: very silty, la (grey silt. Sli, (sand is fine sure with cu mooth, plana	degree dip. Smooth, planar, dull, very tight, clean, very ty, laminations indistinct. With intermittent very thin to thin . Slightly gritty feel when cut with sharp knife. In places fine). . curved surface. O degree dip, curving sharply to 90 lanar, dull, very tight, clean, very stiff, unweathered.				'n	
		26.00	C)	400	00				य । य । य । य								:	
		26.50	C)	100	93				<u> </u>		At 26.45m: fis clean, very sti At 26.55m: fis clean, very sti At 26.6m: fiss clean, very sti At 26.7m: fiss clean, very sti	fissure. 0 degree dip. Smooth, planar, slightly polished, very tight, <u>stiff, unweathered.</u> fissure. 0 degree dip. Smooth, planar, slightly polished, very tight, <u>stiff, unweathered.</u> fissure. 30 degree dip. Smooth, planar, slightly polished, very tight, stiff, unweathered. fissure. 30 degree dip. Smooth, planar, slightly polished, very tight, stiff, unweathered.					1	
		27.00 27.00 - 28.9	50	,			-100mm			<u> </u>		At 26.8m fiss clean, very sti At 26.8m fiss clean, very sti depth. 27.0 to 27.25r tight, clean, very 27.2 to 27.35r tight, clean, very 27.0 to 27.25r tight, clean, very 27.0 to 27.25r tight, clean, very 27.0 to 27.25r	ure. 30 degre iff, unweatheu ure. 70 degre ff, unweatheu n: fissure. 85 ery stiff, unwe r: fissure. 85 ery stiff, unwe m: fissure. 45 ery stiff, unwe m: fissure. 45	0 degree dip. Smooth, planar, slightly polished, very tight, weathered. 0 degree dip. Smooth, planar, slightly polished, very tight, weathered. Dips in opposite direction to other fissure at same sure. 85 degree dip. Smooth, planar, slightly polished, very ff, unweathered. ure. 30 degree dip. Smooth, planar, slightly polished, very ff, unweathered. ure. 30 degree dip. Smooth, planar, slightly polished, very ff, unweathered. ure. 45 degree dip. Smooth, planar, slightly polished, very ff, unweathered. ure. 45 degree dip. Smooth, planar, slightly polished, very ff, unweathered. ure. 45 degree dip. Smooth, planar, slightly polished, very ff, unweathered.		ne			
										F		21.2111.							
Hole	Diameter	Casing Dia	ameter Diameter	Depth To	n Denth	Chisel Base	lling	Tool	Lepth Top	clination	and Orienta	ation	Depth Top	Depth Base	Drillin Type	Ig Flush	Min (%)		
7.50 8.50	200 150	7.50 8.50	200 150	Sopul 10	- Dehul	2496	JurauUII		Sopar rop	Sobri De	montatio		Бораттор	Doput Dase	туре		wiii (70)	11/2	

AGS

Geo	-Environ	mental							- 4: 4: 4.	-		D-4 00/04/0005 07/0	2/2025				
Project	Name: Lo	ndon water Rec	ycling (L	WR)				ames wate	r Utilities Lto	1		Date: 29/01/2025 - 07/02	2/2025				
Locatio	n: London					C	Contracto	r:				Co-ords: E517001.78 N	172739.62				
Project	No. : GE2	1665		-		0	Crew Nan	ne: MY+PJ				Drilling Equipment: Dan	do 2000+Com	acchio 305	,		
В	MT-026-	35	HOI6 CF	e Type P+RC	•		7	Level .47m AoD		Loggea KOD+1	БУ ГL	1:20	S	age Numbe heet 8 of 1	ər 1		
Well	Water	Depth (m)	Type /FI	C	orin	g RQD	Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend		Stratum Desci	ription				
		27.50	D								Very st silty CL subdivi LONDO 27.35 to 27.4 very tight, cle At 27.45m; fit clean, very st 27.45 to 27.5 tight, clean, v	iff very thinly laminated fis LAY. [Preliminary London (ision B1]. DN CLAY FORMATION m: fissure. 85 degree dip. Smooth nan, very stiff, unweathered. ssure. 0 degree dip. Smoot fiff, unweathered. Terminates for fissure. 90 degree dip. Smoot	ssured greyish Clay Formatio n, undulating, slight ar, slightly polishea th, planar, slightly p s against fissures.	brown n ly polished, l, very tight, polished, very			
		28.00	D	100	93	80					27.45 to 27.6 clean, very st 27.8 to 28.0n 27.85 to 28.0n tight, clean, v At 27.9m: fiss clean, very st At 27.92m: fit clean, very st At 27.93m: fit clean, very st 28.0 to 28.1n clean, very st	m: insure. 60 degree dip. Smooth iff. unweathered. n: slightly sandy (sand is fine). n: slightly sandy (sand is fine). iff. unweathered. Terminates sure. 35 degree dip. Smooth, plan. iff. unweathered. ssure. 35 degree dip. Smooth, plan. iff. unweathered. Parallel with fiss sure. 35 degree dip. Smooth, plan. iff. unweathered. Parallel with fiss n: fissure. 65 degree dip. Smooth, iff. unweathered. Core split easily	n, planar, polished, h, planar, slightly p, s against other fisst ar, slightly polished nar, slightly polishe sure at 27.9m. nar, slightly polishe sure at 27.92m. planar, polished, v along this fissure.	very tight, olished, very ures. I, very tight, id, very tight, id, very tight, ery tight,	28 -		
		28.50 28.50 - 30.00	D				-100mm				28.0 to 28.1n clean, very st approximatel 28.05 to 28.1 clean, very st	unweathered. Core split easily along this fissure. fissure. 80 degree dip. Smooth, planar, polished, very tight, unweathered. Core split easily along this fissure. Dip direction is <u>30 degrees clockwise</u> to fissure at 28.0m. fissure. 60 degree dip. Smooth, planar, polished, very tight, unweathered. Core split easily along this fissure. Dip direction is 30 degrees anticlockwise to fissure at 28.0m.					
		29.00	D	100	100	13					ppproximate) At 28.1m. fiss clean, very sl plean, very sl 28.15 to 28.2 clean, very sl 28.25 to 28.5 clean, very sl At 28.4m. fiss plean, very sl plean, very sl pl	y bu aegrees anticiockwise to insis sure. 5 degree dip. Smooth, planai tiff, unweathered. 5m: fissure. 65 degree dip. Smooth fiff, unweathered. Core split easily im: fissure. 90 degree dip. Smooth fiff, unweathered. Core split easily sure. 35 degree dip. Smooth, plana uff, unweathered. Smooth, plana veathered. Core split easily along sure. 90 degree dip. Smooth, plana veathered. Core split easily along sure. 90 degree dip. Smooth, plana veathered. Core split easily along sure. 90 degree dip. Smooth, plana veathered. Core split easily along sure. 90 degree dip. Smooth, plana veathered. Core split easily along sure. 91 degree dip. Smooth, plana tiff, unweathered.	pasity along this inssure. Dip direction is o fissure at 28.0m. olanar, slightly polished, very tight, planar, slightly polished, very tight, smooth, planar, polished, very tight, pasity along this fissure. planar, polished, very tight, planar, slightly polished, very tight,				
		29.50	D			13					Al 28. odm: in: clean, very si At 28. 7m: fiss clean, very si 28. 7 to 28.9m clean, very si At 28.9m: fiss tiff, unweath At 29.29.4m light, clean, v 29.0 to 29.1m clean, very si clean, very si clean, very si clockwise to	sure. 5 degree dip. Smooth, piani fif, unweathered. Smooth, plani fif, unweathered. Core split easily f. fissure. 75 degree dip. Smooth, uff, unweathered. Core split easily ure. 35 degree dip. Smooth, m. fissure. 45 degree dip. Smooth, ery stiff, unweathered. fif, unweathered. Core split easily fif, unweathered. Dip direction is a other fissure at same depth. Core	ar, siigntiy polished, , slightiy polished, along this fissure. planar, polished, v along this fissure. , planar, slightly po planar, polished, v along this fissure. planar, polished, v approximately 60 d split easily along th	, very tight, ery tight, ery tight, ght, clean, very lished, very ery tight, ery tight, egees nis fissure.	/		
		30.00 30.00 - 31.50	D				- (51) 100mm				Wedge-shape other fissure 29.1 to 29.3n clean, very st 29.2 to 29.3n slightly polish At 29.4m: fiss clean, very st At 29.42m: sl	ed section split out from side of co at same depth). n: fissure. 90 degree dip. Smooth, liff, unweathered. n: fissure. 55 degree dip, curving te ted, very tight, clean, very stiff, unv sure. 0 degree dip. Smooth, plana liff, unweathered. hell fossi (lovalve).	re (bounded by thi: planar, polished, v o 90 degrees. Smo weathered. r, slightly polished,	s fissure and ery tight, oth, planar, very tight,	30 -		
		30.50	D	100	100	40					At 29.45m: fis clean, very st 29.5 to 29.9n Bounded by t slightly polish degree dip, o planar, slightl At 29.65m: fis clean, very st At 29.7m: fiss planar, slightl At 29.8m: fiss	ff, unweathered. elf fossil (divalve). sure: 30 degree dip. Smooth, planar, slightly polished, very tight, ff, unweathered. 's everal wedge-shaped sections split easily from side of the core. vo sets of fissures: _Set 1_ 70 to 80 degree dip. Smooth, planar, ad. very tight, clean, very stiff, unweatheredSet 2_ 60 to 70 ientated approximately at 60 degrees clockwise to set 1. Smooth, 'polished, very tight, clean, very stiff, unweathered. sure. 30 degree dip. Smooth, planar, slightly polished, very tight, ff, unweathered. ure: 30 degree dip. Smooth, planar, polished, very tight, clean, very stiff, unweathered. ure: 50 degree dip. Smooth, planar, polished, very tight, clean, eathered.					
		31.00 31.10 - 31.40	D C								At 29.9m; first Clean, very st 29.9 to 30.0m clean, very st At 30.5m; fiss clean, very st At 30.5m; fiss clean, very st	statistica. sure. 70 degree dip. Smooth, plana fiff, unweathered. sure. 90 degree dip. Smooth, fiff, unweathered. Core split easily sure. 30 degree dip. Smooth, plana sure. 5 degree dip. Smooth, plana sure. 5 degree dip. Smooth, plana sure. 5 degree dip. Smooth, plana	ar, slightly polished planar, polished, v along this fissure. ar, slightly polished r, slightly polished,	l, very tight, ery tight, l, very tight, very tight,	31 -		
Hole Depth Bas 7.50 8.50 40.50	Diameter se Diameter 200 150 146	Casing DiametrDepth BaseDiam7.50208.5015	ter Dep eter Dep 0	oth Top	Depth I	Chisel Base	ling Duration	Tool D	Inclina Depth Top Dept	h Base Inclinatio	ation Orientation	Depth Top Depth Base Typ	Drilling Flush pe Colour	Min (%)	Max (%)		
Rema	rks																



6	8							R	ota	ry	С	ore	Lo	g				
Project	-Environ Name: Lo	mental ondon Water Rec	ycling (L	WR)		С	Client: Th	ames Water	r Utilities Lt	td			Date: 29	/01/2025 -	07/02/20	25		
Locatio	n: London	1		-		С	Contracto	r:					Co-ords:	E517001	.78 N1727	739.62		
Project	No. : GE2	21665				С	Crew Nar	ne: MY+PJ					Drilling E	Equipment	: Dando 2	000+Cor	nacchio 305	5
Bo	prehole Nu	umber	Hole	е Туре	9			Level			Logged I	Ву		Scale			Page Numb	er
	MT-026-	35	CF	P+RC	• • • • • •		7 ہے ج	.47m AoD			KOD+T	L		1:20			Sheet 9 of 1	1
Well	Water	(m)	/FI	TCR	SCR	g RQD	Diamet Recove (SPT)	(m)	(m)	Le	egend		S	tratum D	Descripti	ion		
		31.50 31.50 - 33.00 32.00 32.50	D	100	100	666	-100mm					Very sti silty CL subdivi: LONDC At 30.55m: fis clean, very sti at 30.55m: fis clean, very sti clean, very sti dean, very sti dt 31.55m: fis clean, very sti dt 31.65m: fis clean, very sti dt 31.05m: fos clean, very sti dt 31.05m: fos clean, very sti dt 31.05m: fos clean, very sti dt 31.05m: fos clean, very sti clean, very sti screan dt 32.55m; fis clean, very sti	Iff very thinly laminated fissured greyish brown AY. [Preliminary London Clay Formation Sion B1]. DN CLAY FORMATION Sure. 40 degree dip. Smooth, planar, slightly striated, very tight, iff, unweathered. Sure. 25 degree dip. Smooth, planar, slightly polished, very tight, iff, unweathered. Dip direction is approximately 80 degrees other fissure at same depth. Sure. 20 degree dip. Smooth, planar, slightly polished, very tight, iff, unweathered. Dip direction is opposite to other fissure at same depth. Sure. 20 degree dip. Smooth, planar, slightly polished, very tight, iff, unweathered. Dip direction is opposite to other fissure at same same. So degree dip. Smooth, planar, slightly polished, very tight, iff, unweathered. Diver. 90 degree dip. Smooth, planar, slightly polished, very tight, iff, unweathered. Sure. 50 degree dip. Smooth, planar, slightly polished, very tight, iff, unweathered. Diver. 90 degree dip. Smooth, planar, slightly polished, very tight, iff, unweathered. Diversed dip. Smooth, planar, slightly polished, very tight, iff, unweathered. Diversed dip. Smooth, planar, slightly polished, very tight, diff, unweathered. Diversed dip. Smooth, planar, slightly polished, very tight, diff, unweathered. Diversed dip. Smooth, planar, dull, very tight, clean, veathered. Diversed dip. Smooth, planar, dull, very tight, clean, veathered. Diversed dip. Smooth, planar, dull, very tight, clean, veathered. Diversed dip. Smooth, planar, slightly polished, very tight, diff. unweathered. Diversed dip. Smooth, planar, dull, very tight, clean, veathered. Diversed dip. Smooth, planar, slightly polished, very tight, diff. unweathered. Diversed dip. Smooth, planar, slightly polished, very tight, clean, veathered. Diversed dip. Smooth, planar, slightly polished, very diff. unweathered. Diversed dip. Smooth, planar, slightly polished, very endethered. Diversed dip. Smooth, planar, slightly polished, very endethered. Diversed dip. Smooth, planar, slightly polished, very endethered. Diversed dip. Smooth, planar, slightly polished					32
		33.00 33.00 - 34.50 33.30 33.40 - 33.70	D C	100	100	87	loomm	33.85	-26.38			32.52 to 32.83 Smooth, plan, At 32.55m: fis very tight, clea 32.5 to 32.85r tight, clean, vi 32.5m. At 32.28m: fiss clean, very st At 33.28m: fiss clean, very st At 33.3m: fiss clean, very st At 33.3m: fiss clean, very st At 33.3m: fiss clean, very st At 33.95 to 33.4 tight, clean, ver very stlift, unv	5m: fissure. 8. ar, slightly occurs sure. 50 deg an, very stiff, in: fissure. 80 deg ff, unweathe in: fissure. 80 deg ff, unweathe une. 50 deg reathered. m: fissure. 88 ery stiff, unwe ff to extree	 altered. Bodgree dip. Smooth, planar, slightly polished, very unweathered. Bod begree dip. Smooth, planar, slightly polished, very unweathered. Degree dip. Smooth, planar, nevr stiff, unweathered. Degree dip. Smooth, planar, slightly polished, very tight, each edip. Smooth, planar, slightly polished, very tight, eathered. Degree dip. Smooth, planar, slightly polished, very tight, eathered. Gegree dip. Smooth, planar, slightly polished, very tight, eathered. Core split easily along this fissure. degree dip. Smooth, planar, slightly polished, very tight, eathered. Core split easily along this fissure. degree dip. Smooth, planar, slightly polished, very unweathered. Core split easily along this fissure. 				33
		34.00 34.50 34.50 - 36.00	D				-100mm					fissured partings Format LONDC 33.85 to 34.21 At 33.9m fiss clean, very sti At 33.85m cc claystone. 33.95 to 34.01 tight, clean, very stightly polish 50mm interva At 34.05 to 34.31 tight, clean, very sti	stiff to extremely weak very thinly laminated ed greyish brown silty CLAY with intermittent gs dark grey silt. [Preliminary London Clay ation subdivision A3]. OON CLAY FORMATION 2m: slightly sandy. Sand is fine. ssure. 65 degree dip. Smooth, planar, slightly polished, very tight, stiff, unweathered. Corris gravel-sized nodule of very weak light greyish brown 0m: fissure. 90 degree dip. Smooth, planar, slightly polished, very very stiff, unweathered. Sim: several subparallel fissures. 0 to 5 degree dip. Smooth, planar, shed, very tight, clean, very stiff, unweathered. Spaced at 10 to vals. 3m: fissure. 60 degree dip. Smooth, planar, slightly polished, very very stiff, unweathered. ssure. 50 degree dip. Smooth, planar, slightly polished, very tight, stiff, unweathered.				34	
Hole	Diameter	Casing Diame	ter		L(L Chisell	ling			ation a	nd Orienta	ition		15	Drillin	g Flush		
Depth Bas 7.50 8.50 40.50	Diameter 200 150 146	r Depth Base Diam 7.50 20 8.50 15	ieter Dej i0 i0	pth Top	Depth I	Base	Duration	Tool D	epth Top Dep	oth Base	Inclination	n Orientation	Depth Top	Depth Base	Туре	Colour	Min (%)	Max (%)
Rema	rks															T		-



Geo	-Environ	imental																	
Project	Name: Lo	ondon Water R	ecycling (L	WR)		C	Client: Th	ames Wa	ter Utiliti	es Ltd				Date: 29	/01/2025 -	07/02/20)25		
Locatio	n: London	1				C	Contracto	or:						Co-ords	: E517001	.78 N172	739.62		
Project	No. : GE2	21665				C	Crew Nar	ne: MY+F	Ŋ					Drilling E	Equipment	: Dando 2	2000+Com	acchio 30	5
Bo	orehole Nu	umber	Hol	е Туре	e			Level			L	ogged	Ву		Scale		P	'age Numb	er
	MT-026-	35		P+RC			7 تم ک	.47m AoE)	<u> </u>	Τ	KOD+T			1:20		S	heet 10 of	11
Well	Water	Depth (m)	Iype /FI	ТСР	Sorin	BOD	liamete (SPT)	Deptr (m)	ו Le (evel m)	Le	gend		S	tratum D	Descript	ion		
		35.00	D	TOR	JOIN	RQD		()	`	,	×:	<u> </u>	Very sti	ff to extre	mely weal	k very thi	nly lamina	ted	35 -
											×	×— ×— ×—	partings Formati	a greyisn s dark gre on subdi N CI AY	brown slity by silt. [Pre vision A3]. FORMATI	Iiminary I	Ith Intermi London Cl	ay	=
		25 40									×	×	35.1 to 35.4m tight, clean, ve 35.1 to 35.4m tight, clean, ve	: fissure. 90 ery stiff, unw : fissure. 75 ery stiff, unw	degree dip. S eathered. degree dip. S eathered. Dip	mooth, plan mooth, undu direction is	ar, slightly po Ilating, slightl approximatel	iished, very y polished, ver y 90 degrees	ry -
		55.40		87	87	33						× × ×	At 35.5m: fiss	to other fiss ure. 0 degre ff, unweathe	ure at same de e dip. Smooth ered.	epth. , planar, slig	htly polished,	, very tight,	-
		35 70										<u> </u>		50.4					-
											×	<u>×</u>	At 35.7m: fiss clean, very sti At 35.71: fissu	ure. 50 degr ff, unweathe ire. 55 degre	ee dip. Smoot ered. ee dip. Smootl	in, u but, slig h, planar, slig	ntiy polisned, ghtly polished	, very tight, I, very tight,	-
											×	<u>~</u>	clean, very sti 35.75 to 36.0r	ff, unweathe n: no recove	ered. Dip direc ery.	tion is oppo	site to other fi	ssure at 35.7n	n. –
		36.00 - 37.5	0				100mm					<u> </u>	36.0 to 40.5m	: lamination:	s indistinct.				36 —
		36.10 - 36.5	0 C									<u> </u>	-						-
											×	×							-
												<u>×</u> ×							-
											×	×	-						-
		36.60	D								×	<u> </u>	At 36.6m: piec	e of pyritise	d fossil wood.	10mm dian	neter, spans i	whole core.	-
				100	100	50						<u> </u>					,		-
				100	100	53						<u>×– </u>	-						-
											×	<u> </u>	At 36.9m: fiss	ure. 45 degr	ee dip. Smoot	th, planar, sl	ightly polishe	d, very tight,	-
		37.00	D									×	37.0 to 37.2m tight, clean, ve	: fissure. 70 ery stiff, unw	degree dip. S.	mooth, plan	ar, slightly po	lished, very	37 —
												<u>×</u>							-
											×	×	37.25 to 37.5r	n: fissure. 8	0 degree dip.	Smooth, und	lulating, sligh	tly polished,	-
												<u> </u>		an, very sun,	unweathered				-
		37.50	D				-100mm					<u> </u>	-						-
		37.50 - 39.0	0								×	<u> </u>	-						-
												×							-
												<u>×—</u>	-						-
		20.00									×	×	-						-
		38.00										<u> </u>	At 38.0m: fiss stiff, unweathe	ure. 30 degr ered.	ee dip. Smoot	th, undulatin	g, dull, very ti	ght, clean, ver	y 38 –
				47	14	0		38.20	-3	0.73		<u> </u>	tight, clean, ve At 38.15m: pa	rting of dark	eathered. grey silt.	mootin, plan	ar, siignuy poi	ished, very	
													NO RE 38.2 to 39.0m	COVERY	ed out.				-
																			-
																			-
																			-
Hole	Diameter	Casing Dia	meter			Chisel	ling			nclinati	on an	d Orient:	ation			Drillir	na Flush		
Depth Bas 7.50	se Diamete 200	r Depth Base D 7.50	iameter De 200	pth Top	Depth	Base	Duration	Tool	Depth Top	Depth	Base	Inclinatio	on Orientation	Depth Top	Depth Base	Туре	Colour	Min (%)	Max (%)
8.50 40.50	150 146	8.50	150																
Deres	rko																		
Hand d	ug ground	l level to 1.2m.	Cable Pe	rcussi	on 1.2	to 8.	5m. Rota	ry Cored	(Geobor	e-S) 8.	.5 to -	40.5m.							



roject	Name: Lo	ndon Water Re	ecycling (l	_WR)		C	Client: Th	ames Water	Utilities L	td	Date: 29/01	1/2025 - 07/02/	2025		
ocatio	n: London	l				C	Contracto	r:			Co-ords: E	517001.78 N17	72739.62		
roject	No. : GE2	21665				0	Crew Nar	ne: MY+PJ			Drilling Equ	uipment: Dando	o 2000+Com	acchio 30	5
Bo	prehole Nu	umber	Hol	е Туре	9			Level		Logge	Ву	Scale	F	age Numb	er
	MT-026-	35 Danth		P+RC		~	7 ⊒ ≧ _	.47m AoD		KOD+		1:20	S	heet 11 of	11
Well	Water	(m)	/FI	TCR	SCR	g RQD	Diamet Recove (SPT)	(m)	(m)	Legend	Stra	atum Descri	ption		
39.0	39.00 39.00 - 40.50 39.50	D				-100mm	39.00	-31.53	3 	Very stiff to extreme fissured greyish bro partings dark grey s Formation subdivis LONDON CLAY FC 39.1 to 39.4m: core surface p 41 39.2m: fissure. 50 degree clean, very stiff, unweath 39.2 to 39.4m: fissure. 60 deg tight, clean, very stiff, unweath 19.2 m. 19.9.4 to 39.55m: fissure. 70 de	ely weak very t bwn silty CLAY silt. [Preliminar ion A3]. DRMATION nartially washed awa dip. Smooth, planar, t. gree dip. Smooth, pl hered. Dip direction agree dip. Smooth, p	hinly lamina with intermi y London Cl y. sightly polishe anar, slightly po is perpendicula planar, slightly p	ted ttent ay d, very tight, lished, very r to fissure at olished, very	— 39	
		40.00	D	75	75	53		40.15	-32.68		right, clean, very stiff, unweati 39.4m. At 39.6m. clean, very stiff, unweathered very stiff, unweathered NO RECOVERY. 40.15 to 40.5m: core lost due	hered. Dip direction dip. Smooth, planar, t. to failed liner.	is opposite to fi.	ssure at 39.2 t	° 40
	40							40.50	-33.00	3	End c	of Borehole at 40	0.500m		41
															42
Hole lepth Bas 7.50 8.50 40.50	Diameter se Diamete 200 150 146	Casing Dian r Depth Base Dia 7.50 8.50	neter De ameter De 200 150	pth Top	Depth I	Chisel Base	lling Duration	Tool De	Inclir	ation and Orier	ation Depth Top D	Dri Depth Base Type	Iling Flush Colour	Min (%)	Max

-

		Unit	7, Danw	orth Farm					Borehole No.
		Hurs BN6	stpierpoir 9GI	nt		Bo	oreh	ole Loa	MT-027-35d
Geo-E	nvironn	nentalwww	.gesl.ne	t					Sheet 1 of 10
Project	Name:	Lond	on Water F	Recycling (LWR)	Project No. GE21665		Co-ords:	517025E - 172323N	Hole Type CP+RC
Locatio	on:	Lond	on		Energy Ra Driller's Initia	tio (%): al: JS	Level:	7.01	Scale 1:20
Client:		Than	nes Water	Utilities Ltd	Rig	Туре:	Dates:	12/02/2025 - 25/02/2025	Logged By
	10/	Som	nlo ond lr	a Situ Taating	Dand	0 2000			KOD+IL
Well	vvater Strikes	Depth (m		Results	(m)	n Level (m)	Legend	Stratum Description	
		0.05 - 0.30 0.30 0.30	ES PID	PID=0.5ppm	0.03 0.05 0.07 0.35 0.35	6.98 6.96 6.94 6.66 6.66		Black fine to medium grained well comp TARMACADAM MADE GROUND TARMACADAM. MADE GROUND Black fine to coarse grained moderately TARMACADAM MADE GROUND	compacted
		0.50 - 0.80) B					MADE GROUND comprising dark brow brown SAND and GRAVEL with abunda concrete, some tarmacadam fragments fragments. Gravel is fine to coarse suba some sandstone. MADE GROUND	n and orangish int brick, and rare slate ingular flint and
		0.80	PID	PID=0.3ppm				MADE GROUND comprising dark brow	n and orangish
		1.00 - 1.20	в					concrete, some tarmacadam fragments fragments. Gravel is fine to coarse suba	and rare slate 1 -
		1.20 1.20	ES PID	PID=0.2ppm				MADE GROUND 225 to 0.45m: concrete fragment, approximately MADE GROUND comprising orangish to very gravelly CLAY with abundant brick some clinker and rare pieces of metal re fine to coarse subangular flint and chalk MADE GROUND 0.8 to 0.8m: concrete fragment approximately 20 100mm thickness.	200mm diameter. prown very sandy and concrete, abar. Gravel is Dmm diameter,
		2.00 2.00 - 2.40 2.00 2.00	ES B CPT PID	N=2 (1,1/1,1,0, PID=0.6ppm	0)			At 1.7m: potential Asbestos Containing Material - fragments.	cement sheet
		3.00 3.00 - 3.45 3.00 3.00	ES B CPT PID	N=5 (3,2/2,1,0, PID=0.2ppm	2)				3 -
		4.00	ES		3.70	3.31		3.5 to 3.7m: some black-stained partially decomp MADE GROUND comprising dark brow gravelly CLAY. Gravel is fine to coarse a flint, brick and concrete fragments. MADE GROUND	n to black sandy and comprises
		4.00 - 4.45	6 B					4	
Diamete	Casing er Dept	Wate h (m) Depth St	r Strikes (mbgl) rike Rose to	Chiselling (ml	epth to	<s< td=""><td></td><td></td><td></td></s<>			
200	6.0	00 4.30	4.30		Hole reloo Pavement	cated several time t cored ground lev	s due to presen el to 0.05m. Hai	ce ot asbestos containing materials in previous locatio nd dug 0.05 to 1.2m. Cable percussive 1.2 to 8.1m. Ro	tary
	0		5.50		cored (Ge	eobore-S) 8.1 to 36	o.Um.		AUD

	Unit 7,	Danw	orth Farm					Borehole No	0.
	Hurstp BN6 9	ierpoir Gl	nt		Bo	reh	ole Log	MT-027-3	85d
Geo-Environm	nentalwww.g	esl.ne	t			1	0	Sheet 2 of 1	10
Project Name:	London	Water F	Recycling (LWR)	Project No. GE21665		Co-ords:	517025E - 172323N	Hole Type CP+RC	•
Location:	London			Energy Ratio	o (%):	Level:	7.01	Scale	
				Driller's Initial Rig T	: JS			1:20	/
Client:	Thames	Water	Utilities Ltd	Dando	2000	-Dates:	12/02/2025 - 25/02/2025	KOD+TL	
Well Water	Sample	e and li	n Situ Testing	Depth (m)	Level	Legend	Stratum Description		
	Depth (m) 4.00 4.00 5.00 - 5.45 5.00 5.00 - 5.45 5.00 5.00 6.00 6.00 6.00 6.00 6.00 6.00 7.00 7.00 7.00	Type CPT PID ES B CPT PID B ES CPT PID B ES CPT PID	Results N=13 (1,2/2,8,2,1 PID=0.2ppm N=7 (3,2/1,2,2,2) PID=0.2ppm N=18 (2,5/7,6,3,2 PID=0.1ppm	(m)) 5.50 (5.50 (c) 6.00 (c) 6.50	1.51 1.01 0.51	Legend	Stratum Description MADE GROUND comprising dark brown gravelly CLAY. Gravel is fine to coarse a flint, brick and concrete fragments. MADE GROUND At 5.0m: a medium gravel-sized fragment of cera MADE GROUND comprising dark grey sandy fine to coarse subangular flint GF frequent brick and rare metal. MADE GROUND Matter GROUND Matter GROUND <td>n to black sandy and comprises <i>mic material.</i> to black clayey RAVEL with ne to coarse subangular flint</td> <td>6 7</td>	n to black sandy and comprises <i>mic material.</i> to black clayey RAVEL with ne to coarse subangular flint	6 7
Project Name: Location: Client: Well Vater Strikes Dep 5.01 5.01 5.01 5.01 6.70 6.70 6.70 0 0 0 0 0 0 0 0 0 0 0 0 0									
				8.10	-1.09	<u> </u>			
	Water Str (m) Depth Strike	ikes (mbgl) Rose t	Chiselling (mbg Depth from Dep	Remarks					
	00 4.30 .0 5.50	4.30 5.50		Hole relocat Pavement c cored (Geol	ted several times ored ground leve pore-S) 8.1 to 36	s due to presen el to 0.05m. Ha .0m.	ce of asbestos containing materials in previous location nd dug 0.05 to 1.2m. Cable percussive 1.2 to 8.1m. Ro	ns. tary	5

ject	Name: Lo	ndon Water R	ecycling (L	WR)		С	lient: Th	ames Water	Utilities	s Ltd		Date: 12/02/2025 - 25/02/2025
atic	n: London					C	Contracto	or:				Co-ords: E517024.71 N172323.41
ject	No. : GE2	1665				С	Crew Nar	ne: JS+PJ				Drilling Equipment: Dando 2000+Comacchio 305
В	orehole Nu	umber	Hol	е Туре	;			Level			Logged	By Scale Page Number
	MT-027-3	35d	Ci	P+RC			7 تەك	7.01m AoD	Τ.	.	KOD+T	L 1:20 Sheet 3 of 10
ell	Water	(m)	/FI	TCR	SCR	j RQD	Diamet Recove (SPT)	(m)	(n	n)	_egend	Stratum Description
		8.10 - 9.00	D	100	100							Very stiff very thinly laminated fissured brownish grey silty CLAY. [Preliminary London Clay Formation subdivision C]. LONDON CLAY FORMATION
8.50 9.00 9.00 - 10.50 9.50			100	100	55	-100mm					6.6 to 9.0m: fissure. 90 degree dip. Smooth, planar, slightly polished, very tight, plean, very stiff, unweathered. 8.6 to 10.3m: extremely closely fissured. Fissures are smooth, planar, dull to slightly polished, very tight, clean, stiff, unweathered. Most are impersistent and terminate against other fissures.	
		9.00 - 10.50 9.50	D									
		10.00	D	97	60	20						At 9.7m: several medium sand-sized sh ell fragments. 10.05 to 10.5m: fissure. 85 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. At 10.1m: coarse sand-sized pyritised fossilised wood fragment. 10.2 to 10.5m: aradualiv becoming arevish brown. Grevish prown below 10.5m.
		10.50 10.50 - 12.00	D				-100mm					At 10.65m: fissure. 5 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. At 10.7m: fissure. 10 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. Dip direction is the same as the fissure at 10.65m.
		11.00	D							X IX IX IX IX		10.7 to 10.75m: fissure. 90 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. Terminates against other fissures. 10.75 to 11.0m: extremely closely fissured. Fissures are predominantly sub horizontal or subvertical. Subvertical fissures mostly terminate against subhorizontal fissures. 10.9 to 11.0m: fissure. 70 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 11.0 to 11.35m: fissure. 85 degree dip. Smooth, undulating, slightly polished, very tight, clean, very stiff, unweathered. 11.0 to 11.35m: multiple subparallel subhorizontal fissures at spacings of 10 to 60mm. Fissures are smooth, planar, slightly polished, very tight, clean, stiff, unweathered.
		11.50	D	100	100	80				<u> </u>		11.0 to 11.4m: fissure. 90 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. Dip direction is approximately 80 degrees clockwise to other subvertical fissure at the same depth. At 11.4m: fissure. 55 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. [1.45 to 11m.6m: fissure. 85 degree dip. Smooth, undulating, slightly polished, very tight, clean, very stiff, unweathered. [1.55 to 11.7m: extremely closely fissured. Core contains several fine gravel-sized nodules of pyrite. At 11.7m: fissure. 35 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. [1.15 to 11.7m: extremely closely fissured. Core contains several fine gravel-sized nodules of pyrite. At 11.7m: fissure. 35 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. If 1.55 to 11.7m: succentered dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. Dig direction is perpendicular to fissure at 11.7m. At 11.77m: fissure. 35 degree dip. Smooth, planar, slightly polished, very tight, tlean, very stiff, unweathered. Dig direction is perpendicular to fissure at 11.7m. At 11.77m: fissure. 35 degree dip. Smooth, planar, slightly polished, very tight, tlean, very stiff, unweathered. Dig direction is perpendicular to fissure at 11.7m.
										×	<u> </u>	Line and the second
lole n Ba	Diameter se Diameter 200	Casing Diar r Depth Base Di 6.00	neter De 200	pth Top	Depth B	hisell ase	ling Duration	Tool De	pth Top	clination Depth Ba	and Orienta se Inclinatio	ation Drilling Flush n Orientation Depth Top Depth Base Type Colour Min (%) 8.10 16.50 0 0 80 0
10 .00	150 146	8.10	150									

oject	Name: Lo	ndon Water Re	cycling (L	WR)		C	Client: Th	ames Water	Utilities Lto	l	Date: 12/02/2025 - 25/02/2025
catio	n: London					C	Contracto	r:			Co-ords: E517024.71 N172323.41
oject	No. : GE2	1665				c	Crew Nan	ne: JS+PJ			Drilling Equipment: Dando 2000+Comacchio 305
В	orehole Nu	ımber	Hol	е Туре	;			Level		Logged	By Scale Page Number
	MT-027-3	35d	CF	P+RC			7	.01m AoD		KOD+1	L 1:20 Sheet 4 of 10
ell	Water	Depth (m)	Type /FI		Sorin	g	lamete tecover (SPT)	Depth (m)	Level	Legend	Stratum Description
		12.00	D				-100mm			××	Very stiff very thinly laminated fissured brownish grey silty CLAY. [Preliminary London Clay Formation subdivision Cl
		12.00 - 13.50 12.35 12.40 - 12.80 13.00	D C	100	100	60		12.10	-5.09		LONDON CLAY FORMATION Very stiff very thinly laminated fissured greyish brown silty CLAY. [Preliminary London Clay Formation subdivision B2]. LONDON CLAY FORMATION 12.1 to 13.0m: very silty, slightly sandy. Sand is fine. Slight gritty feeling when Lut with sharp knife. 12.1 to 12.4m: fissure. 85 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 12.3 to 12.4m: fissure. 85 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 12.8 to 12.95m: extremely closely fissured. 13.2 to 13.3m: fissure. 40 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 13.2 to 13.3m: fissure. 40 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered.
		13.50 D 13.50 - 15.00	-100mm				At 13.25m: bivaive shell, 20mm diameter. At 13.4m: fissure. 65 degree dip. Smooth, planar, slightly polished, very tight, planar, slightly polished, very tight, planar, slightly polished, very tight, several shell fragments. At 13.45m: several shell fragments. At 13.55m: fissure. 35 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 13.65 to 13.8m: fissure. 90 degree dip. Smooth, planar, slightly polished, very				
1:	14.00 D						tight, clean, very stiff, unweathered. At 13.8m: thin lense of dark grey silt. T3 95 to 14.35m: fissure. 85 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. Terminates within soil mass. At 14.1m: fissure. 25 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. T4.1 to 16m: very silfy, slightly sandy (sand is fine). Slightly gritty feeling when cut with sharp knife. Sand and silt content reduce gradually towards 16.0m, pecoming only silty. At 14.1.5m: fissure. 30 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. Dip direction is opposite to fissure at 14.1m.				
	14.50 D 14.50 D 100 67 60 14.50 D 100 67 60 14.50 D 14.50 D 14.50 D 15.5 1				At 14.2m: fissure. 5 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. At 14.2m: fine gravel-sized patch of dark grey silt. 14.3 to 14.35m: extremely closely fissured. 14.4 to 14.6m: fissure. 65 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 14.5 to 14.6m: fissure. 65 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 14.5 to 14.5m: fissure. 65 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. Parallel with fissure at 14.4m, spaced 10mm apart. At 14.55m: three subparallel fissures spaced 10 to 15mm apart. Fissures are smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 14.7 to 15.0m: fissure. 85 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. Bt 14.2m: fittik, lense of dark prev very stift, clean.						
		15.00 15.00 - 16.50	D				-100mm				At 14.75m: fissure. 15 degree dip. Smooth, planar, slightly polished, very tight, lean, very stiff, unweathered. 14.75 to 14.8m: fissure. 90 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. Dip direction is perpendicular to fissure from 14.75 to 15.0m. At 10.65m: two parallel fissures spaced at 30 mm. 40 degree dip. Smooth, blanar, slightly polished, very tight, clean, very stiff, unweathered. 14.8 to 16.8m: with intermittent very thin lenses and coarse sand-sized to fine gravel-sized patches of dark grey silt. 14.85 to 15.0m: several intersecting subvertical fissures. Smooth, planar, slightly
	15.50							<u>unsireu</u> , very tignt, ciean, very stift, unweathered. At 14-95m: parting of dark grey silt. At 15.2m: fissure. 30 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. At 15.4m: fissure. 30 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. Parallel with fissure at 15.2m. At 15.5m: fissure. 30 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. Parallel with fissure at 15.2m. JT5.6 to 15.9m: extremely closely fissured. Fissures dip in multiple directions and are typically smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. Dips between 20 and 60 degrees.			
	Diameter	Casing Diam	eter			Chisel	lina	I	Inclinat	ion and Orient	ation Drilling Flush
1 Ba	se Diameter	Depth Base Dia	meter De	pth Top	Depth I	Base	Duration	Tool De	pth Top Depti	Base Inclinatio	n Orientation Depth Top Depth Base Type Colour Min (%) M



-Environmental	

Geo-	Environ	mental												1					
Project I	Name: Lo	ndon Water F	Recycling (L	WR)		C	Client: Th	ames Wa	ter Util	ities Ltd	I			Date: 12	/02/2025 -	25/02/20)25		
Location	1: London					C	Contracto	or:						Co-ords:	E517024	.71 N172	323.41		
Project I	No. : GE2	1665				C	Crew Nar	ne: JS+P	J					Drilling E	quipment	: Dando 2	2000+Cor	macchio 305	;
Во	rehole Nu	umber	Hol	е Туре	;			Level				Logged I	Ву		Scale			Page Numb	ər
	MT-027-3	35d	CI	P+RC			7	.01m Aol	2			KOD+T	Ľ		1:20			Sheet 5 of 1	0
Well	Water	Depth (m)	Type /FI	TCR	orin	g ROD	Diameter Recovery (SPT)	Deptl (m)	h	Level (m)	Le	egend		S	tratum D	Descript	ion		
		16.00	D	100	100	93					4,1,4,1,4,1,4,1,4,1,4,1,4		Very sti silty CL subdivis LONDC 15.7 to 16.1m clean, very sti 16.0 to 16.4m clean, very sti clean, very sti 16.3 to 16.5m clean, very sti	ff very thi AY. [Prelin sion B2]. N CLAY fissure. 85 ff. unweathe tight, clean, fissure. 85 ff. unweathe fissure. 85 ff. unweathe sure from 16	nly lamina minary Lon FORMATI degree dip. S red. 5mm diamete rallel fissures. very stiff, unv degree dip. S red. degree dip. S red. Dip direc. 0 to 16.4m.	ted fissur ndon Clay ON mooth, plana er. 40 degree of weathered. S imooth, plana tion is appro	ed greyis / Formati ar, polished, paced at 5 i ar, polished, ar, polished, ximately pe	h brown on very tight, planar, slightly to 15mm. very tight, very tight, rpendicular to	16
		16.50 16.50 - 18.0	D				-100mm						16.5 to 16.8m tight, clean, ve 16.5 to 16.75r tight, clean, ve anticlockwise At 16.55m: fis clean, ve clean, very sti	: fissure. 90 ery stiff, unw n: fissure. 90 ery stiff, unw to other vert sure. 25 deg ery stiff, unw sure. 35 deg ff, unweathe	degree dip. S eathered.) degree dip eathered. Dip ical fissure at ree dip. Smoo eathered. ree dip. Smoo red.	mooth, plana Smooth, plan direction is 16.5m. oth, undulatii oth, planar, s	ar, slightly p nar, slightly p approximate ng, slightly p slightly polisi	olished, very polished, very yly 60 degrees polished, very hed, very tight,	
		17.00	D	100	100	47							At 16.75m; tis clean, very sti At 16.75m; fis clean, very sti At 16.8m; fiss clean, very sti 16.8 to 17.0m tight, clean, ve At 16.85m; co 16.85 to 17.0m	sure. 35 deg ff, unweathe sure. 0 degro ff, unweathe ure. 55 degro ff, unweathe : fissure. 90 ery stiff, unwe arse gravel- m: extremely	ree dip. Smoo red. ee dip. Smool red. ee dip. Smool red. degree dip. S eathered. sized fossilise closely fissur	oth, planar, sli th, planar, sli th, planar, sli mooth, plana d wood frag ed, with thre	inghtly polish ightly polish ightly polish ightly polish ar, slightly po ment. e predomini	ed, very tight, ed, very tight, ed, very tight, plished, very ant setsSet	17
		17.50	D										1_ 0 to 5 deg stiff, unweathe Smooth, plana Generally term planar, slightly is approximate set 1. <u>At 16.95m: co</u> 17.0 to 17.15r clean, very stit 17.15 to 17.3r appears destr	ree dip. Smot ered. Persisti r, slightly po ninate again: r polished, ve ely 60 degree arse gravel-: n: fissure. 90 ff, unweathe n: surface of uctured, with					
		18.00 18.00 - 19.5	50 D				-100mm						17.3 to 17.6m 5 to 20 degree unweathered, planar, slightly terminate aga polished, very 60 degrees ar 17.65 to 17.86 appears destr 17.8 to 18.0m	: extremely c e dip. Smoot Persistent a v polished, ver inst set 1 tight, clean, hticlockwise 1 Sm: surface c uctured, with : extremely c	closely fissure h, planar, slig cross core. ery tight, clea Set 3_ 70 to very stiff, unv to set 2. Gene f core partial bout clear lam closely fissure	Id, with three htly polished _Set 2_ 85 the 80 degree du weathered. E erally termina ly washed aw inations or fi Id. No clear s	predominai very tight, to 90 degree unweathered jp. Smooth, jp direction ate against s way. Core is ssuring. sets.	nt setsSet 1_ clean, very stiff, a dip. Smooth, J. Generally planar, slightly is approximatel, is at 1. firm to stiff and	/ 18 —
		18.50	D																
		19.00	D	93	60	53							18.75 to 23.3r At 18.8m: fiss stiff, unweather At 18.85m: fis clean, very sti At 18.9m: fiss clean, very sti depth. 18.95 to 19.1r tight, clean, ve At 19.0m: coa	n: very silty, ure. 35 degra ered. sure. 45 deg ff, unweathe ure. 5 degreu ff, unweathe ure. 5 degreu ff, unweathe n: fissure. 88 ery stiff, unw rse gravel-si	with some ve ee dip. Smoot ree dip. Smooth red. e dip. Smooth red. Dips in o degree dip. eathered. zed fossilised	ry thin lense th, planar, du oth, planar, slig o, planar, slig pposite direc Smooth, plan l wood fragm	s of dark gre ill, very tight slightly polish htly polished thly polished tion to othe nar, slightly p nent.	ey silt. , clean, very hed, very tight, d, very tight, d, very tight, f fissure at same poolished, very	, 19 — , , , , , , , , , , , , , , , , , , ,
		19.50	D-D-				100mm				×	<u> </u>							
		19.50 - 21.0																	
Hole I	Diameter	Casing Dia	ameter De	oth Top	(Denth F	Chisel _{Base}	ling Duration	Tool	Depth 7	Inclinat	tion a	nd Orienta	ation	Denth Ton	Depth Base	Drillin Type	Ig Flush	Min (%)	Max (%)
6.00 8.10 36.00	200 150 146	6.00 8.10	200 150		Sopuri				Dopuri		. 2450			8.10 16.50	16.50 36.00	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		80 70	80 70
Remar	ˈks										4'			 		05m 11-			



Geo	-Environ	mental									<u> </u>	J	•••		J				
Project	Name: Lo	ondon Wate	r Recy	cling (L	WR)		С	lient: Th	ames Wate	r Utilitie	es Ltd			Date: 12	/02/2025	- 25/02/20	25		
Locatio	n: London	l					C	Contracto	r:					Co-ords:	: E517024	1.71 N1723	323.41		
Project	No. : GE2	21665					С	rew Nar	ne: JS+PJ					Drilling E	Equipment	t: Dando 2	000+Cor	macchio 305	
Bo	orehole Nu	umber		Hole	е Туре	;		-	Level			Logged	Ву		Scale		I	Page Numbe	r
	MT-027-3	Dont	 h			orin	~	l z z	.01m AoD			KOD+I			1:20			Sheet 6 of 10)
Well	Water	(m)	"	/FI	TCR	SCR	9 RQD	Diamet Recove (SPT	(m)	(1	n)	Legend		S	tratum I	Descripti	on		
												<u>xx</u>	Very sti silty Cl	ff very thi AY [Preli	nly lamina minary I o	ated fissur	ed greyis Formati	h brown on	-
												<u>x</u> x	subdivis	sion B2].			· onnau		-
												<u>xx</u>	At 19.6m: fiss	ure. 35 degr	ree dip. Smoo	oth, planar, sli	ghtly polishe	ed, very tight,	-
													At 19.7m: fiss	ure. 45 degr	rea. ree dip. Smoo pred. Dip. dire	oth, planar, sli	ghtly polishe	ed, very tight,	_
												xx	at 19.6m. At 19.8m: fiss	ure. 45 dear	ee dip. Smoo	oth. planar. sli	ahtiv polishe	ed. verv tight.	_
		20.00)	D									clean, very sti At 19.8m: fiss	ff, unweathe ure. 20 dear	red. Subpara	allel with fissu oth. planar. sli	re at 19.7m. ahtlv polishe	ed, very tight,	20 —
													clean, very sti anticlockwise	ff, unweathe to other fiss	ered. Dip dire ure at same o	ction is appro depth.	ximately 30	degrees	-
													At 19.8m: fiss stiff, unweathe	ure. 90 degr ered.	ee dip. Smoo	oth, planar, du	ll, very tight	, clean, very	-
					100	100	27						At 19.85m: fis stiff, unweathe	sure. 5 degr ered.	ee dip. Smoo	oth, undulating _	g, dull, very	tight, clean, very	-
													At 19.9m: fiss clean, very sti	ure. 30 degr ff, unweathe	ee dip. Smoo red. Subpara	oth, planar, sli allel with fissu	ghtly polishe re at 19.7m.	ed, very tight,	-
		20.50	, I	П									19.9 to 20.0m 10 to 15 degre	: extremely of e dip. Smoo	closely fissur oth, planar, si	ed, with three lightly polishe	predominar d, very tight,	nt setsSet 1_ , clean, very	_
		20.00	,	D									stiff, unweather very tight, clea	eredSet 2 an, very stiff,	2_ 45 degree unweathere	dip. Smooth, dSet 3_ 2	planar, slig 0 to 40 degi 	htly polished, ree dip. Smooth,	-
													blanar, slightly is approximate	/ polished, v ely 60 degre	ery tight, clea es clockwise	an, very stiff, L _to set 2.	inweathered	d. Dip direction	-
												<u>x</u> <u> </u>	very stiff, unw	sure. 50 deg eathered.	gree dip. Smo	ootn, pianar, p	olisnea, ver	y tight, clean,	
													clean, very sti	ff, unweathe	ered. Dip dire	ction is perpe	ndicular ant	iclockwise to	-
													At 20.45m: fis	sure. 15 deg	gree dip. Smo pred	ooth, planar, s	lightly polisł	hed, very tight,	-
		21.00)	D				100mm					At 20.45m: fis	sure. 65 deg ff. unweathe	gree dip. Smo ared. Dips in d	ooth, planar, s	lightly polisi tion to other	hed, very tight, r fissure at same	21 -
		21.00 - 2	1.40	С									depth. At 20.5m: fiss	ure. 55 dear	ee dip. Smoo	oth. planar. sli	ahtiv polishe	ed. verv tight.	_
		21.00 - 2.	2.00										clean, very sti At 20.55m: fis	ff, unweathe sure. 90 dec	ered. gree dip. Smo	oth, planar, p	olished, ver	y tight, clean,	-
													very stiff, unw At 20.55m: thi	eathered. ick lense of d	dark grey silty	v clay.			-
													At 20.6m: two planar, slightly	parallel fiss / polished, v	ures spaced ery tight, clea	5 mm apart. 5 an, very stiff, u	55 degree di Inweathered	ip. Smooth, d. Parallel with	-
													fissure at 20.5 At 20.65m: fis	ām. sure. 35 deg	gree dip. Smo	ooth, planar, s	lightly polisł	hed, very tight,	-
		21.50)	D									clean, very sti At 20.7m: fiss	ff, unweathe ure. 0 degre	ered. e dip. Smoot	h, planar, sligi	htly polished	d, very tight,	-
												× <u> </u>	Clean, very sti At 20.72m: fis	ff, unweathe sure. 15 deg	ered. gree dip. Smo	ooth, planar, s	lightly polisł	hed, very tight,	-
					07	07							At 20.73m: fis	ff, unweathe sure. 0 degr	erea. ee dip. Smoo	oth, planar, sli	ghtly polishe	ed, very tight,	-
					97	97	33						At 20.75m: fis	sure. 25 deg	gree dip. Smo gree dip. Smo	ooth, planar, s	lightly polisi	hed, very tight,	-
													At 20.8m: fiss	ure. 25 degr	red. ree dip. Smoo pred. Parallel	oth, planar, slig	ghtly polishe t 20 75m	ed, very tight,	-
		22.00	,	П									At 20.85m: fis	sure. 5 degr ff. unweathe	ree dip. Smoo	oth, planar, sli	ghtly polishe	ed, very tight,	22 -
		22.00	,	5									At 20.95m: tw slightly polish	o subparalle ed. verv tiah	el fissures. 60 t. clean. verv	and 70 degre	ee dips. Smo ered.	ooth, planar,	-
													At 21.5m: fiss clean, very sti	ure. 45 degr ff, unweathe	ee dip. Smoo ered.	oth, planar, sli	ghtly polishe	ed, very tight,	_
													At 21.6m: fiss clean, very sti	ure. 90 degr ff, unweathe	ee dip. Smoo red. Termina	oth, planar, sli tes against la	ghtly polishe minations.	ed, very tight,	-
		22.30)	D									At 21.6m: fiss clean, very sti	ure. 10 degr ff, unweathe	ee dip. Smoo ered.	oth, planar, sli _	ghtly polishe	ed, very tight,	-
													At 21.65m: fis clean, very sti	sure. 15 deg ff, unweathe	gree dip. Smo ered. Subpara	ooth, planar, s allel with fissu	lightly polisi re at 21.6m.	ned, very tight,	-
		22.50 - 24	4.00					100mm					At 21.65m: fis clean, very sti	sure. /5 deg ff, unweathe	ree aip. Smo red. Dip dire	otn, planar, s ction is appro:	iigntiy polisi ximately 30	iea, very tight, degrees	
												<u> </u>	At 21.7m: fiss	ure. 45 degr ared	ee dip. Smoo	oth, undulating	g, dull, very	tight, clean, very	-
												× <u>×</u> ×	At 21.7m: fiss	ure. 65 degr ff_unweathe	ee dip. Smoo	oth, planar, sli	ghtly polishe	ed, very tight, dearees	-
												<u>x</u> x	anticlockwise At 21,85m: fis	to other fissi sure, 35 dec	ure at same o pree dip. Smr	depth. both. planar s	lightly polisi	ned. verv tiaht	-
					80	33	20						clean, very sti 21.85 to 21.9r	ff, unweathe	red. 5 degree dip.	Smooth, plar	nar, slightly i	polished, verv	-
		22.00											tight, clean, ve 21.85 to 21.95	ery stiff, unw 5m: fissure. 8	eathered. 80 degree dir	. Smooth, pla	anar, slightly	polished, very	-
		23.00	,	U									tight, clean, ve clockwise to c	ery stiff, unw ther subvert	eathered. Di	o direction is a <u>t</u> same depth.	approximate	ly 60 degrees	23 -
													22.0 to 22.1m tight, clean, ve	: fissure. 70 ery stiff, unw	degree dip. S eathered.	Smooth, plana	ar, slightly po	olished, very	-
													22.1 to 22.2m	: fissure. 70 ery stiff, unw	degree dip. S eathered. Dip	Smooth, plana o direction is o	ar, slightly po opposite to f	olished, very fissure at 22.0m.	-
******									23.30	-16	6.29	<u> </u>	At 22.2m: fiss	ure. 90 degr	ee aip. Smoo	o <u>r</u> n, undulating	g, aull, very	ught, clean, very	
Hole	Diameter	Casing I	Diamete	er		(Chisell	ing		Ir	clinatio	on and Orienta	ation			Drillin	g Flush		<u> </u>
Depth Bas 6.00	e Diamete 200	r Depth Base 6.00	Diame 200	eter Dep	oth Top	Depth I	Base	Duration	Tool D	Depth Top	Depth	Base Inclinatio	on Orientation	Depth Top 8.10	Depth Base 16.50	е Туре	Colour	Min (%) 80	Max (%) 80
8.10 36.00	150 146	8.10	150											16.50	36.00			70	70
Rema	rks																		



-Environmental	

Project Name	: London Water Re	ecycling (L	WR)		C	Client: Th	ames Wate	er Utilities	s Ltd			Date: 12/	02/2025 ·	- 25/02/20	25		
Location: Lon	Idon				C	Contracto	r:					Co-ords:	E517024	.71 N1723	323.41		
Project No. : 0	GE21665				C	Crew Nan	ne: JS+PJ					Drilling E	quipment	: Dando 2	000+Cor	nacchio 30	5
Borehole	e Number	Hole	е Туре	•			Level			Logged E	Ву		Scale		F	Page Numb	er
MT-02	27-35d Depth	Сғ Туре	P+RC	orin	g	ieter very T)	.01m AoD Depth	Lev	vel	KOD+T	L		1:20	Decerinti		Sheet 7 of 7	0
vveli vvat	er (m)	/FI	TCR	SCR	RQD	Diam Reco (SP	(m)	(n	ו)	Legend		51	tratum L	Jescripti	on		
	23.50 24.00	D				-100mm	23.70 24.00	-16.	.69		Very sti subdivis LONDC At 22.2m: fiss stiff, unweathe 22.25 to 22.3r 22.3 to 22.4m fiameter. 22.4 to 22.45r At 23.25m: fis clean, very sti silty CL subdivis	ff very thir AY. [Prelir sion B2]. DN CLAY If cored distu cored distu cored distu o degre ff, unweather ff very thir AY. [Prelir sion B2].	Ily lamina ninary Lo ORMATI ee dip. Smoo irbed, possit strong to stru- urbed, possit ee dip. Smoo ed. Ily lamina ninary Lo	ted fissure ndon Clay ON by due to clay by due to clay by due to clay th, planar, slig tted fissure ndon Clay	ed greyis Formation (a, dull, very state (claystone) (h brown on v, Whole core e, ed, very tight, h brown on	y 24 -
	24.00 - 25.50 24.50	D	93	93	67						LONDC 23.3 to 23.7m Slight gritty fe At 23.3m: fissi- tery stiff, unw 3.4 to 23.5m tight, clean, ve NO REC 23.7 to 24.0m Very stift subdivis LONDC 24.0 to 26.2m when cut with stift. At 24.2m: fiss	DN CLAY I : gradually be eling when cu ure. 45 degre eathered. : fissure. 85 degre eathered. : fissure. 85 degre ery stiff, unwe COVERY. : no recovery ff very thir :y CLAY. [I sion B1]. DN CLAY I : very silty an sharp knife. ure. 15 degre	EORMATI scoming very it with sharp te dip. Smoo degree dip. S sathered. : core washe hly lamina Preliminal EORMATI d slightly sat With intermit te dip. Smoo	ON silty and slig knife. th, planar, po mooth, planar d away. ted fissure ry London ON ndy. Sand is 1 tent very thin th, planar, slig	htly sandy. lished, very r, slightly po ed greyis Clay For ine. Slight g to thin lens ghtly polishe	Sand is fine. tight, clean, olished, very h brown mation ritty feeling es of dark grey ed, very tight,	
	25.00	D							<u>य 1य 1य 1य 1य</u>		plean, very sti At 24.25m; fis clockwise to fi At 24.4m; fiss tight, clean, ver At 24.5m; fiss undulating, sli At 24.6m; mec At 24.7m; fiss clean, very sti 284 to 25.0m; very stiff, unw	ff, unweather sure. 20 degr ff, unweather ssure at 24.2 ure. 60 degre ery stiff, unwe ure. 25 degre ghtly polished dium gravel-s ure. 35 degre ff, unweather ff, sure. 80 d eathered.	ed. ree dip. Smo ed. Dip direc m. e dip. Smoo eathered. ee dip. curvin d, very tight, ized patch o red. egree dip. Smoo ed.	oth, planar, s ttion is appro th, planar, po g to 5 degree clean, very s f dark grey si th, planar, sli mooth, plana	lightly polish kimately 20 lished and s s across co tiff, unweath lt. ghtly polished, n c, polished, n	eed, very tight, degrees triated, very re. Smooth, ered. ed, very tight, very tight, clear	25 - n,
	25.50 25.50 - 27.00	D				-100mm			1 4 14 14 14		25.0 to 25.2m tight, clean, ve 25.2 to 25.4m clean, very sti At 25.4m. coa silty fine sand. At 25.6m: fiss clean, very sti At 25.7m: fiss clean, very sti clean, very sti	: Itissure: 85 c ery stiff, unwe fissure: 90 c ff, unweather rse gravel-si: ure: 5 degree ff, unweather ure: 90 degre ff, unweather sure: 20 degi ff, unweather	tegree dip. S eathered. Jegree dip. S ed. zed nodule o e dip. Smooth ed. Smoo ed. Terminat ree dip. Smo red.	mooth, plana mooth, plana f extremely w h, planar, slig th, planar, sli es against la oth, planar, s	r, slightly po r, polished, reakly ceme htly polished ghtly polishe minations. lightly polish	olished, very very tight, nted dark grey d, very tight, ed, very tight, ned, very tight,	
	26.00	D	100	100	100				מ ומ ומ ומ		26.1 to 26.4m tight, clean, ve 26.2 to 31.7m At 26.25m: co 26.25 to 26.3r tight, clean, ve	: fissure. 85 o ery stiff, unwe : with occasio arse sand-siz m: fissure. 75 ery stiff, unwe	degree dip. S eathered. onal very thin zed shell fos: degree dip. eathered.	mooth, plana lenses of da sil. Smooth, plar	r, slightly po rk grey silt. par, slightly p	olished, very polished, very	26
	26.50	D									At 26.3m: fiss. clean, very sti At 26.35m: fis clean, very sti At 26.35m: fis clean, very sti At 19.6m: two olanar, slightly is opposite to 26.55 to 26.8r tight, clean, ve At 26.7m: fiss. clean, very sti	ure. 90 degre ff, unweather sure. 0 degre ff, unweather sure. 40 degr ff, unweather parallel of fis- parallel of fis- fissure at 26. m: fissure at 26. m: fissure. 80 ery stiff, unweather ff, unweather	ee dip. Smoo eed. Terminal ee dip. Smoo ed. ree dip. Smoo ed. ssures space ry tight, clea 35m. degree dip. aathered. ee dip. Smoo ed.	th, planar, sli es against fis th, planar, sli oth, planar, s d at 15 mm. n, very stiff, u Smooth, plar th, planar, sli	ghtly polishe sures. ghtly polishe lightly polish 45 degree d unweathered har, slightly p ghtly polishe	ed, very tight, ad, very tight, ned, very tight, ip. Smooth, d. Dip direction polished, very ad, very tight,	
	27.00 27.00 - 28.50	D				-100mm				<pre></pre>	26.85 to 26.95	5m: extremely	closely fiss	ured.			27
Hole Diamet Depth Base Diamet 6.00 2 8.10 1 36.00 1	ter Casing Dian meter Depth Base Dia 200 6.00 150 8.10	neter Dep ameter Dep 200 150	oth Top	Depth I	Chisel Base	ling Duration	Tool E	Inc Depth Top	clination Depth Ba	and Orienta ase Inclination	n Orientation	Depth Top 8.10 16.50	Depth Base 16.50 36.00	Drillin Type	g Flush Colour	Min (%) 80 70	Max (%) 80 70
Remarks Hole relocated dug 0.05 to 1.	d several times due .2m. Cable percuss	e to prese sive 1.2 to	nce of 8.1m	asbe: Rota	stos c ry cor	containing red (Geol	materials pore-S) 8.1	in previo to 36.0n	ous loca n.	ations. Pave	ement core	d ground	level to 0	.05m. Har	nd	AG	S

Projec	Name: Lo	ndon Water F	Recycling	(LWR)		C	Client: Th	ames Water	Utilities	Ltd			Date: 12	2/02/2025	- 25/02/202	25		
ocatio	n: London	l				c	Contracto	or:					Co-ords	: E517024	.71 N1723	23.41		
Projec	No. : GE2	21665				C	Crew Nar	ne: JS+PJ					Drilling E	Equipment	: Dando 20	00+Com	nacchio 30	5
В	orehole N	umber	Н	ole Typ	е		-	Level			Logged	Ву		Scale		F	Page Numb	er
	IVI I -027-3	Denth	Tvn		Corin	na	ery	Denth		<u>-</u>	KOD+I			1:20			Sheet 8 of	.0
Well	Water	(m)	/FI	TCR	SCR	RQD	Diame Recov (SP1	(m)	(m)		egend		S	stratum [Descriptio	on		
		27.50 28.00	D	97	63	53						Very sti very sil subdivi LONDC	iff very thi ty CLAY. sion B1]. DN CLAY dium sand-s sure. 30 degr ff. unweather 5m: slightly s sure. 30 degr ff. unweather all fragment.	Inly lamina Prelimina FORMATI ized shell frag ee dip. Smoo red. sandy (sand is gree dip. Smo red. 5 mm diamet	ted fissure ry London ON ment. th, planar, slig fine). With se oth, planar, sli er.	d greyisl Clay For htty polishe everal thin le ightly polish	n brown mation d, very tight, enses of dark ed, very tight,	28
		28.50 28.50 - 30.0 28.60 - 29.0	00 C				-100mm					28.2 to 28.45 tight, clean, v At 28.6m: fiss very stiff, unw	m: fissure. 8. ery stiff, unw sure. 90 degr veathered.	5 degree dip. reathered. ree dip. Smoo	Smooth, plana th, planar, poli	ar, slightly p ished, very i	olished, very tight, clean,	
		29.00	D	97	97	60						At 29.0m: fiss very stiff, unw 29.05 to 29.1 pf dark grey v 29.1 to 29.2m tight, clean, v	sure. 45 degr veathered. m: 50 mm th very silty clay n: fissure. 45 ery stiff, unw	ree dip. Smoo ick layer cont degree dip. S reathered.	th, planar, poli aining multiple mooth, undula	ished, very i thick lamin ating, slightl	tight, clean, ations / lenses y polished, ver	29 y
		29.50	D									At 29.3m: fiss clean, very st clean, very st 29.5 to 29.5m 29.5 to 29.6m At 29.65m: fiss clean, very st 29.7 to 30.0m	sure. 40 degr iff, unweathe 1: fissure. 90 iff, unweathe 1: slightly sar ssure. 35 deg iff, unweathe 1: fissure. 85	ree dip. Smoo ored. degree dip. S red. ndy. Sand is fi gree dip. Smo ored. degree dip. S	th, planar, slig mooth, undule ne. oth, planar, sli mooth, planar	htly polishe ating, polish ightly polish r, slightly po	d, very tight, red, very tight, ed, very tight, lished, very	
		30.00 30.00 - 31.5	50 D				-100mm			X		_ tight, clean, v	ery stiff, unw	reathered.				3
		30.50	D	97	97	80						At 30.1m: two polished, very At 30.3m: fiss very stiff, unw 30.3 to 30.35 light, clean, v	o subparallel / tight, clean, sure. 90 degr /eathered. m: fissure. 4 ery stiff, unw	fissures. 0 de , very stiff, un ree dip. Smoo 0 degree dip. veathered.	gree dip. Smc weathered. th, planar, poli	ooth, undula ished, very i ar, slightly p	ting, slightly tight, clean, olished, very	
Hole	Diameter	Casing Dia	imeter	venth Top	Depth	Chisel	ling			nation a		30.75 to 31.0 Smooth, undu	m: fissure. 8: Jating, slight	5 degree dip a tly polished, v	at top, curving ery tight, clear Drilling	to 40 degre n, very stiff, g Flush	Min (%)	
6.00	200 150	6.00 8.10	200 150	, iop									8.10 16.50	16.50 36.00	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		80 70	8

AGS

Geo-Enviror	amental						R	ota	ar	y C	ore	Lo	g				
Project Name: Lo	ondon Water Re	ecycling (l	_WR)		С	lient: Th	ames Water	Utilities	s Ltd			Date: 12	/02/2025 -	- 25/02/20	25		
Location: Londor	า				С	Contracto	or:					Co-ords:	E517024	.71 N172	323.41		
Project No. : GE	21665				c	Crew Nar	ne: JS+PJ					Drilling E	Equipment	: Dando 2	2000+Co	macchio 305	
Borehole N	umber	Hol	е Туре	9			Level			Logged	Ву		Scale			Page Numbe	er
MT-027-	35d	CI	P+RC			7 تەك	7.01m AoD		.	KOD+1	"L		1:20			Sheet 9 of 10)
Well Water	Depth (m)	/FI	TCR	SCR	I g RQD	Diamete Recovel (SPT)	Depth (m)	Lev (n	vel n)	Legend		S	tratum D	Descript	ion		
	31.00 31.50 31.50 - 33.00 32.00 32.50		100	53	33	-100mm					Very sti very sil subdivi: LONDC At 31.0m: fiss clean, very sti 31.2 to 21.3m tight, clean, very 31.2 to 21.3m tight, clean, very 31.3 to 31.4m tight, clean, very anticlockwise 31.3 to 31.4m tight, clean, very anticlockwise 32.2 to 32.0m Recovered fr 32.2 to 32.3m 32.3 to 32.4m tight, clean, very anticlockwise anticlockwise At 32.45m; fiss clean, very sti At 32.6m; fiss clean, very sti At 32.6m; fiss clean, very sti At 32.6m; fiss	ff very thi fy CLAY. [sion B1]. NN CLAY ure. 35 degn ff, unweathe real medium ure. 5 degre ff, unweathe rest stift, unweathe ry stiff, unweathe ry stiff, unweathe ry stiff, unweathe strue. 3 degre ff, unweathe sure. 7 degre ff, unweathe sure. 7 degre ff, unweathe to dissure at sure. 45 degr ff, unweathe to disturd. core disturd sure. 45 degr ff, unweathe to distartistic sure. 15 degr ff, unweathe to distartistic sure. 15 degr ff, unweathe under distartistic sure. 15 degr ff, unweathe under dy vitti sure. 15 degr ff, unweathe sure. 15 degr ff, unweathe su	nly lamina Preliminar Preliminar edip. Smoot red. isand-sized fi degree dip. Smoot edip. Smoot degree dip. S eathered. Dip 31.2 to 31.3 degree dip. S eathered. Dip 31.2 to 31.5 degree dip. S eathered. Dip 31.2 to 31.5 visual degree dip. S eathered. Dip 31.2 to 31.5 visual degree dip. Smoot red. possibil ree dip. Smoot reed. p. Smoot r	ted fissur ry London ON th, planar, sli ssil wood fri planar, slig imooth, pland direction is a mooth, pland due to clayst claystone. W y due to clayst claystone. W y due to clayst oth, planar, sli th, planar, sli	ed greyis I Clay FC ghtly polish agments. htly polishe ilating, slightly approximat ar, slightly polish approximat Whole core tone above /hole core of vistone above /ilightly polish silghtly polish silghtly polish silghtly polish m diametei	sh brown rmation ed, very tight, d, very tight, ttly polished, very polished, very ely 60 degrees oloished, very ely 60 degrees ely 60 degrees ely 60 degrees ely 60 degrees ely 60 degrees ely 60 degrees el, very tight, hed, very tight, hed, very tight, hed, very tight, hed, very tight, hed, very tight,	31
	33.00 33.00 - 34.50 33.50 34.00 34.50 34.50 - 36.00		93	93	73	-100mm					At 32.8m: fiss clean, very sti 32.8 to 33.0m tight, clean, v 33.05 to 33.2m tight, clean, v other subvert 33.05 to 33.2m tight, clean, v 33.05 to 33.2m tight, clean, v 33.25 to 33.4m tight, clean, v 41 33.3m: fiss tight, clean, v 33.4 to 33.55m clean, very sti 33.8m fiss blean, very sti 33.85 to 34.0m tight, clean, v 34.15 to 134.2 tight, clean, v 34.15 to 134.2 tight, clean, v 34.15 to 134.2 tight, clean, v 34.15 to 34.4m 134.3 to 34.4m 134.3 to 34.4m 134.3 to 34.5m clean, very sti 34.5m; fis clean, very sti 34.15 to 134.2m 134.3 to 34.4m 134.3 to 34.4m 134.3 to 34.5m clean, very sti	Inter-5 degree Ift, unweather issure-85 ery stiff, unwe issure-85 ery stiff, unweather issure-96 ery stiff, unweather issure-97 ery stiff, unweather issure-13 issure	e dip. Smooth red. degree dip. Second degree dip. Second eathered. Dip same depth. closely fissur i colsely fissur i colsely fissur degree dip. Second degree dip. Second eathered. Die degree dip. Second eathered. Dip 25 to 33.4m. closely fissur 55 degree dip. smooth red. Subparal 56 degree dip. eathered. 35 degree dip. eathered. 35 degree dip. eathered. 35 degree dip. eathered. 35 degree dip. eathered. y fossured. degree dip. Smooth red. 36 degree dip. eathered.	b) planar, slig mooth, plana direction is a red, no domi f extremely w Smooth, plan Smooth, plan direction is a red, with no c Smooth, plan th, planar, slig lel with fissu Smooth, planar, slig bel wath fissu Smooth, planar, slig dout, bel smooth, planar, slig dout.	htly polishe ar, slightly p approximat inant orient, veak light g nar, slightly p approximat dominant or dulating, d ghtly polish ere at 33.751 ar, slightly anar, slightly ar, slightly polish ar, slightly polish ar, slightly polish ar, slightly polish	d, very tight, olished, very olished, very ely 60 degrees to ations. reyish brown silty polished, very polished, very polished, very ely 60 degrees ientations. II, very tight, d, very tight, d, very tight, m, polished, very ly polished, very hed, very tight, hed, very tight,	33
Hole Diameter	Casing Dian	neter De	pth Top	Depth	Chisell Base	ling Duration	Tool De	In op	clinatio Depth E	n and Orient Base Inclinatio	ation on Orientation	Depth Top	Depth Base	Drillin Type	g Flush Colour	Min (%)	Max (%)
6.00 200 8.10 150 36.00 146 Remarks	6.00 8.10	200										8.10 16.50	16.50 36.00			80 70	80 70



Proiect	Name: Lor	idon Water Red	cvclina (I \	WR)		C	lient: Th	ames Water	Utilities I th		Date: 12/02/2025 - 25/02/2025	
Locatio	n: London		- ,			C	ontracto	r:			Co-ords: E517024.71 N172323.41	
Project	No. : GE21	665				С	rew Nar	ne: JS+PJ			Drilling Equipment: Dando 2000+Comacchio 3	05
В	orehole Nu	mber	Hole	е Туре				Level		Logged B	y Scale Page Nun	nber
	MT-027-3	ōd	CP	+RC			7	.01m AoD		KOD+TL	1:20 Sheet 10 c	of 10
Well	Water	Depth (m)	Type /FI	C TCR	SCR	g RQD	Diamete Recover (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
		35.00 35.50	D	100	100	66					Very stiff very thinly laminated fissured greyish brown very silty CLAY. [Preliminary London Clay Formation subdivision B1]. LONDON CLAY FORMATION 134.8m: fissure. 35 degree dip. Smooth, planar, slightly polished, very tight, lean, very stiff, unweathered. 134.9m: fissure. 40 degree dip. Smooth, planar, polished, very tight, clean, ery stiff, unweathered. 135.0m: fissure. 20 degree dip. Smooth, planar, slightly polished, very tight lean, very stiff, unweathered. 135.0m: fissure. 20 degree dip. Smooth, planar, slightly polished, very tight lean, very stiff, unweathered. 135.0m: fissure. 20 degree dip. Smooth, planar, slightly polished, very tight ligned. 5.1 to 35.2m: fissure. 85 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 5.2 to 35.7m: fissure. 85 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 5.2 to 35.7m: fissure. 85 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. 5.3 to 35.5m: fissure. 85 degree dip. Smooth, planar, slightly polished, very tight, clean, very stiff, unweathered. Dip direction is approximately 30 degrees lockwise to fissure at 35.15m. 5.3 to 35.5m: fissure. 85 degree dip. Smooth, planar, slightly polished, very tight to 5.3 tom stiff, unweathered. Dip direction slean seproximately 30 degrees lockwise to fissure at 35.15m.	35 -
		36.00	D				-	36.00	-28.99		End of Borehole at 36 000m	36
Hold	Diameter	Casing Diam									Drilling Fluch	37 -
Depth Ba	Diameter 200	Depth Base Dia	meter Dep	th Top	Depth I	Base	Duration	Tool De	pth Top Depth	Base Inclination	Orientation Depth Top Depth Base Type Colour Min (%) 8,10 16,50 90 </td <td>Max (%)</td>	Max (%)
8.10	150	8.10 2	50								16.50 36.00 70	70

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									Borehole No.
						Bo	reho	ole Log	MT-028-35
Geo-E	nvironm	nental						-	Sheet 1 of 7
Projec	t Name:	London W	ater Re	ecycling (LWR)	Project No. GE21665		Co-ords:	517167.60 - 171979.57	Hole Type WLS+RC
Locati	on:	London					Level:	7.29	Scale 1:25
Client	:	Thames W	/ater U	tilities Ltd			Dates:	28/10/2024 -	Logged By TL
Well	Water Strikes	Samples	s and I	n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description	1
민만		Deptil (III)	туре	Results		()		TARMACADAM.	
					0.15	7.14		MADE GROUND Brown slightly silty sandy fine to co	arse
		0.30 0.30	B ES	PID=0	0.35	6.94		subrounded to subangular GRAVEI to coarse. Gravel comprises flint, b concrete.	Sand is fine rick and
N. 4.2							$\begin{array}{c} \times \times \times \times \times \\ \times \times \times \times \end{array}$	Dark brown to brown sandy gravel	y SILT. Sand
							$\times \times \times \times \times$	s fine to coarse. Gravel is fine to co subrounded to subangular flint.	barse
		0.80 0.80	B ES					KEMPTON PARK GRAVEL	
				PID=0	1.00	6.29	(Coff doub brown oilse oliabile conde	-1
							××	gravelly CLAY. Sand is fine to coars	signuy se. Gravel is
		1.20 1.20	B ES				×	fine to coarse subrounded to angul fine rootlets.	ar flint. Rare
		1.20		N=39 (2.8/11.10.8.10)			××	KEMPTON PARK GRAVEL	
	1.20 - 1.50 B 1.50 - 1.90 B			PID=0					
	1.20 - 1.50 B 1.50 - 1.90 B 1.50 - 17.50 D								
		1.50 - 17.50							
	1.90 - 3.00 B 2.00 ES			1.90	5.39		Yellowing brown slightly gravelly fin SAND. Gravel is fine to coarse sub subrounded flint. KEMPTON PARK GRAVEL	e to coarse bangular to 2	
		2.50 - 26.50	D						
		3.00 - 4.20	В		3.00	4.29		Recovered as: fine to coarse subar subrounded flint GRAVEL. KEMPTON PARK GRAVEL 700mm recovery, unable to determine dept changes in this sampler run.	ngular to 3 hs of layer 4
		4.20 - 4.50	ES		4.20	3.09		Recovered as: yellowish brown slig fine to coarse SAND. Gravel is fine subangular to subrounded flint.	htly gravelly to coarse
	4.50 N=37		N=37	4.50	2.79		KEMPTON PARK GRAVEL	unded flint	
	4.50 (3,4/6,10,10,11			-					
	4.50 - 5.30 B			4.80	2.49		Yellowish brown gravelly fine to coa Gravel is fine to coarse subangular subrounded flint.	arse SAND. to	
								Continued on next sheet	5
Rema Paven 31.5m	marks vement cored 0.0 to 0.15m. Hand dug 0.15 to 1 5m.			2m. Dynamic	sampled	1.2 to 6.0m	n. Rotary cored (Geobore-S) 6.0n	AGS	

								Borehole N	o.
					Bo	reho	ble Log	MT-028-	35
Geo-Environr	nental						0	Sheet 2 of	7
Project Name	: London W	ater Re	ecycling (LWR)	roject No. E21665		Co-ords:	517167.60 - 171979.57	Hole Type WLS+RC) ;
Location:	London					Level:	7.29	Scale 1:25	
Client:	Thames W	Vater U	tilities Ltd			Dates:	28/10/2024 -	Logged By TL	у
Water	Samples	s and I	In Situ Testing	Depth	Level				
Well Strikes	Depth (m)	Туре	Results	(m)	(m)	Legend	Stratum Description	1	
	5.45 - 6.00	B		5.30 5.45	1.99 1.84		Firm yellowish brown mottled browr weathered CLAY. LONDON CLAY FORMATION Firm to stiff brownish grey slightly w slightly slity slightly sandy CLAY. Sa LONDON CLAY FORMATION	nish grey reathered and is fine.	
	6.00	D		6.00	1.29		NO RECOVERY		6 -
	7.50 7.50	D	N=20 (1,2/3,6,6,5)	7.50	-0.21		Stiff to very stiff very thinly laminate grey silty CLAY. LONDON CLAY FORMATION	d brownish	7
	8.00	D		8.25	-0.96		NO RECOVERY. 8.25 to 8.35m: claystone.		8
	9.00 9.50 10.00	D		9.00	-1.71		Stiff to very stiff very thinly laminate fissured brownish grey silty CLAY. [I London Clay Formation subdivision LONDON CLAY FORMATION 9.0 to 9.2m: extremely closely fissured. Sev 60 degrees, spaced at 10 to 15mm. 9.2 to 9.3m: two parallel fissures. 80 degree planar, slightly polished, very tight, clean, st Af 9.3m: fissure. 60 degree dip. Smooth, pla polished, very tight, clean, stiff, unweathere 9.3 to 9.4m: extremely closely fissured. Af 9.4m: fissure. 70 degree dip. Smooth, pla polished, very tight, clean, stiff, unweathere 9.5 to 9.65m: extremely closely fissured. Af 9.6m: fossil worm burrow. 9.6 to 9.85m: fissure. 90 degree dip. Smooth, polished, very tight, clean, stiff, unweathere 9.75 to 9.85m: fissure. 40 degree dip. Smooth, polished, very tight, clean, stiff, unweathere At 9.9m: fossil worm burrow. 9.95 to 10.35m: fissure. 90 degree dip. Smooth, polished, very tight, clean, stiff, unweathere At 9.9m: fossil worm burrow.	d very closely Preliminary C3]. veral fissures dip e dip. Smooth, iff, unweathered. anar, slightly d. anar, slightly d. h, planar, slightly d. vlanar, slightly d. sooth, planar, eathered.	9

^{31.5}m.

								Borehole N	√o.
				Bo	reho	ole Log	MT-028-	-35	
Geo-Environm	nental						U	Sheet 3 of	f 7
Project Name:	: London W	ater Re	ecycling (LWR)	Project No. GE21665		Co-ords:	517167.60 - 171979.57	Hole Type WLS+RC	e C
Location:	London					Level:	7.29	Scale 1:25	
Client:	Thames W	Vater U	tilities Ltd			Dates:	28/10/2024 -	Logged B	}y
\\/atar	Sample	s and I	n Situ Testing	Danth	Laval			1	1
Well Strikes	Depth (m)	Туре	Results	(m)	(m)	Legend	Stratum Descriptior	1	
Remarks	10.50 11.00 11.00 12.00 12.00 12.50 13.00 14.00 14.50 15.00	D D D D D D D D D D D	N=25 (2,4/5,6,7,7)	12.90	-5.61		At 10.1m: shell fragments. At 10.2: several fossil worm burrows. At 10.25: several fossil worm burrows. At 10.35: several fossil worm burrows. At 10.45m: gastropod shell. 10.35 to 10.45m: extremely closely fissured. At 10.45m: gastropod shell. 10.5 to 11.5m: becoming slightly silty. Slightl. 11.5m. 10.5 to 11.5m: becoming slightly silty. Slightl. 11.5m. 11.5m.	d. tly silty below baced at 20 to grees and are clean, stiff, bbbly fossil. taining several des set of Set of fissures slightly polished, ooth, planar, unweathered. ely fissured ary London Has slightly gritty top, curves to 0 ooth, slightly thered. ooth, planar, unweathered. d. d 20mm apart. 80 d, very tight, blanar, slightly thered. oth, planar, unweathered. d. d 20mm apart. 80 d, very tight, blanar, slightly thered. oth, planar, unweathered. oth, planar, unweathere	

									Borehole N	lo.
						Bo	reho	ole Log	MT-028-	-35
Geo-Ei	nvironm	nental							Sheet 4 of	f 7
Projec	t Name:	London W	ater Re	ecycling (LWR)	Project No. GE21665		Co-ords:	517167.60 - 171979.57	Hole Type WLS+RC	e C
Locati	on:	London					Level:	7.29	Scale 1:25	
Client:	:	Thames W	/ater U	Itilities Ltd			Dates:	28/10/2024 -	Logged B TL	8y
	Water	Samples	s and	In Situ Testing	Depth	Level	Lonord	Stratura Description		
vven	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legena	Stratum Description	I	
	15.50 D 16.00 D 16.50 D 16.50 D 16.50 N=40 (5,6/9,9,1) 17.00 D)			 15.2 to 15.3m: fissure. 80 degree dip. Smools slightly polished, very tight, clean, very stiff. At 15.25m: fissure. 0 degree dip. Smooth, to very tight, clean, very stiff, unweathered. At 15.25m: fissure. 30 degree dip. Smooth, polished, very tight, clean, very stiff, unweat 15.4 to 15.6m: fissure. 85 degree dip. Smooth, 15.5 to 15.6m: fissure. 85 degree dip. Smooth, slightly polished, very tight, clean, very stiff, 15.5 to 15.6m: fissure. 85 degree dip. Smooth, polished, very tight, clean, very stiff, 15.5 to 15.6m: fissure. 85 degree dip. Smooth, polished, very tight, clean, very stiff, 15.5 to 15.6m: laminations indistinct. At 15.65 to 15.6m: laminations indistinct. At 15.65 to 15.8m: laminations indistinct. 15.9 to 16.0m: with occasional very tim lensibly fine sand. Lenses are up to 30mm diar 16.2 to 16.5m: fissure. 90 degree dip. Smosslightly polished, very tight, clean, very stiff, unvea 	oth, planar, unweathered. Indulating, dull, planar, slightly thered. oth, planar, unweathered. ooth, planar, unweathered. planar, slightly thered. ses of dark grey meter. oth, planar, unweathered.	16
	17.00 D 18.00 D 18.55 D 19.00 D 19.50 D 20.00 D							At 16.85m: pyritised fossil wood fragment. At 17.3m: fissure. 20 degree dip. Smooth, p polished, very tight, clean, very stiff, unwea At 17.35m: fissure. 20 degree dip. Smooth, polished, very tight, clean, very stiff, unwea with fissure at 17.3m. At 17.38m: fissure. 20 degree dip. Smooth, polished, very tight, clean, very stiff, unwea with fissures at 17.3 and 17.35m. 17.6 to 18.0m: fissure. 90 degree dip. Smooth, slightly polished, very tight, clean, very stiff, 18.0 to 18.5m: moderately strong fractured (whole core diameter).	30 x 10 x 5mm. blanar, slightly thered. planar, slightly thered. Parallel planar, slightly thered. Parallel oth, planar, unweathered. CLAYSTONE	17
					19.10	-11.81		(whole core diameter). 18.0 to 18.6m: extremely closely fissured. At 18.65m: fissure. 40 degree dip. Smooth, very tight, clean, very stiff, unweathered. 18.7 to 19.1m: fissure. 90 degree dip. Smo slighty polished and slighty striated, very t stiff, unweathered. Striations are vertically a Very stiff very thinly laminated close greyish brown silty CLAY. [Prelimina: Clay Formation subdivision C1]. LONDON CLAY FORMATION 19.1 to 21.0m: silty to very silty. Core has s when cut with knife. 19.6 to 19.9m: fissure. 85 degree dip. Smo slightly polished, very tight, clean, very stiff, At 19.6m: fissure. 0 degree dip. Smooth, pl polished, very tight, clean, very stiff, Aligned 40 degrees clockwise (vertically an vertical fissure at 19.6m. 19.85 to 19.95m: extremely closely fissured 19.95 to 20.05m: fissure. 85 degree dip. Smo slightly polished, very tight, clean, very stiff, Aligned 40 degrees clockwise (vertically and vertical fissure at 19.6m. 19.85 to 19.95m: extremely closely fissured 19.95 to 20.2m: fissure. 85 degree dip. Smo slightly polished, very tight, clean, very stiff, Aligned 40 degrees clockwise (vertically and vertical fissure at 19.6m. 19.85 to 19.95m: extremely closely fissured 19.95 to 20.2m: fissure. 85 degree dip. Smo slightly polished, very tight, clean, very stiff, Dolshed, very tight, clean, very stiff, Dolshed, very tight, clean, very stiff, Continued on next sheet	planar, polished, oth, planar, giph, clean, very aligned. By fissured ary London light gritty feeling oth, planar, unweathered. anar, slightly thered. ound core axis) to f. nooth, planar, unweathered. ound core axis) to f. nooth, planar, unweathered.	19
Rema Paven 31.5m	rks nent cor	ed 0.0 to 0.15	im. Ha	nd dug 0.15 to 1.2	m. Dynamio	c sampled	1.2 to 6.0r	n. Rotary cored (Geobore-S) 6.0m	n to	S

									Borehole N	No.
	-					Bo	reho	ole Log	MT-028-	-35
Geo-E	nvironm	nental							Sheet 5 of	f 7
Projec	ct Name:	London W	ater Re	ecycling (LWR)	Project No. GE21665		Co-ords:	517167.60 - 171979.57	Hole Type WLS+RC	e C
Locati	on:	London					Level:	7.29	Scale 1:25	
Client	:	Thames W	/ater U	tilities Ltd			Dates:	28/10/2024 -	Logged B TL	By
Well	Water	Sample:	s and I	n Situ Testing	Depth	Level	Legend	Stratum Descriptior	1	
n.H∵		Depth (m)	Туре	Results	()	()	×_^>	1		-
		 20.50 21.00 21.50 22.00 22.50 23.00 23.50 24.00 	D D D D D D	N=44 (7,8/11,11,11,11)	24.00	-16.71	יראי לא	 20.2 to 20.45m: extremely closely fissured. 20.3 to 20.6m: fissure. 90 degree dip. Smoslightly polished, very tight, clean, very stiff, Aligned 40 degrees clockwise (vertically an other vertical fissure at same depth. 20.65 to 20.8m: extremely closely fissured. At 21.6m: fissure. 40 degree dip. Smooth, polished, very tight, clean, very stiff, unweat At 21.8m: fissure. 80 degree dip. Smooth, polished, very tight, clean, very stiff, unweat At 21.8m: fissure. 80 degree dip. Smooth, polished, very tight, clean, very stiff, unweathere 22.0 to 22.05m: very closely fissured. 27.7 to 22.8m: fissure. 70 degree dip. Smooth, polished, very tight, clean, very stiff, unweathere 22.0 to 22.05m: very closely fissured. 27.7 to 22.8m: fissure. 70 degree dip. Smooth, polished, very tight, clean, stiff, unweathere 23.0 to 23.3m: fissure. 70 degree dip. Smooth, polished, very tight, clean, very stiff, at 22.75m: fissure. 90 degree dip. Smooth, polished, very tight, clean, very stiff, unweathere 23.0 to 23.3m: fissure. 90 degree dip. Smooth, sightly polished, very tight, clean, very stiff, at 22.95m: fissure. 90 degree dip. Smooth, polished, very tight, clean, very stiff, at 23.37m: fissure. 90 degree dip. Smooth, sightly polished, very tight, clean, very stiff, at 23.37m: fissure. 90 degree dip. Smooth, sightly polished, very tight, clean, very stiff, at 23.35m. fissure. 5 degree dip. Smooth, sightly polished, very tight, clean, very stiff, unweat 23.3 to 23.8m: fissure. 70 degree dip. Smooth, polished, very tight, clean, very stiff, unweat 23.35 to 23.8m: fissure. 5 degree dip. Smooth, polished, very tight, clean, very stiff, unweat 23.35 to 23.8m: fissure. 65 degree dip. Smooth, polished, very tight, clean, very stiff, unweat 23.35 to 23.8m: fissure. 65 degree dip. Smooth, polished, very tight, clean, very stiff, unweat 90 degree dip a tase. At 23.95m: fissure. 65 degree dip. Smooth, ery tight, clean, very stiff, unweat 90 degree dip a tas	oth, planar, unweathered. bh, planar, unweathered. bund core axis) to olanar, slightly thered. do x 20 x 5 mm. planar, slightly d. 20 x 5 mm. planar, slightly d. 20 x 5 mm. planar, slightly d. Dips in unweathered. planar, slightly thered. Dih, planar, unweathered. oth, planar, unweathered. oth, planar, unweathered. oth, planar, unweathered. oth, planar, unweathered. oth, planar, unweathered. oth, planar, unweathered. oth, planar, unweathered. oth, planar, unweathered. oth, planar, thered. Curves to planar, slightly thered. Dianar, polished, planar, polished, planar, slightly thered. opth, planar, unweathered. anar, slightly thered. opth, planar, unweathered. anar, slightly thered. opth, planar, unweathered. opth,	21
		24.50	D					slightly polished, very tight, clean, very stiff, 20.3 to 20.6m; fissure. 90 degree dip. Smo slightly polished, very tight, clean, very stiff, Aligned 40 degrees clockwise (vertically an other vertical fissure at same depth. 20.65 to 20.8m; extremely closely fissured. At 21.6m; fissure. 40 degree dip. Smooth, p polished, very tight, clean, very stiff, unwea At 21.8m; fissure. 30 degree dip. Smooth, p	unweathered. oth, planar, unweathered. ound core axis) to olanar, slightly thered. olanar, slightly	
		25.00	D					Continued on next sheet		25 -
Rema Paver 31.5m	rks nent core ı.	ed 0.0 to 0.15	im. Hai	nd dug 0.15 to 1.2	m. Dynamic	sampled	1.2 to 6.0r	n. Rotary cored (Geobore-S) 6.0m	n to	S

									Borehole N	۷o.
						Bo	reho	ole Log	MT-028-	-35
Geo-Ei	nvironm	nental						U	Sheet 6 of	f 7
Projec	t Name:	London W	ater Re	ecycling (LWR) GI	oject No. E21665		Co-ords:	517167.60 - 171979.57	Hole Typ WLS+RC	e C
Locati	on:	London					Level:	7.29	Scale 1:25	
Client:		Thames W	/ater U	tilities Ltd			Dates:	28/10/2024 -	Logged B	Зу
		Samples	and I	n Situ Testina	_					Τ
Well	vvater Strikes	Depth (m)	Туре	Results	Depth (m)	(m)	Legend	Stratum Description	1	
		25.50 25.50 26.00 27.00 27.50 28.00 28.00 28.50 29.00 29.00	D D D D D D D D D D D D D	N=50 (9,10/50 for 295mm)	25.50	-18.21		polished, very tight, clean, very stiff, unweat At 21.85m: pyritised fossil wood fragment, - At 21.85m: fissure. 80 degree dip. Smooth, polished, very tight, clean, stiff, unweathere 22.0 to 22.05m: very closely fissured. 22.7 to 22.8m: fissure. 70 degree dip. Smooth, polished, very tight, clean, very stiff, At 22.75m: fissure. 70 degree dip. Smooth, polished, very tight, clean, very stiff, At 22.75m: fissure. 70 degree dip. Smooth, polished, very tight, clean, very stiff, unweat 23.0 to 23.3m: fissure. 90 degree dip. Smooth, polished, very tight, clean, very stiff, unweat 23.0 to 23.3m: fissure. 90 degree dip. Smooth, polished, very tight, clean, very stiff, 23.0 to 23.3m: fissure. 90 degree dip. Smooth, polished, very tight, clean, very stiff, At 23.35m: fissure. 90 degree dip. Smooth, polished, very tight, clean, very stiff, Aligned at 40 degrees clockwise to other ve 23.3m. At 23.3m: fissure. 5 degree dip. Smooth, p polished, very tight, clean, very stiff, unwea 23.3 to 23.3m: fissure. 70 degree dip. Smooth, p polished, very tight, clean, very stiff, unwea 23.35 to 23.9m: fissure. 70 degree dip. Smooth, p polished, very tight, clean, very stiff, unwea 23.35 to 23.9m: fissure. 65 degree dip. Smooth, p polished, very tight, clean, very stiff, unwea 23.35 to 23.9m: fissure. 65 degree dip. Smooth, p polished, very tight, clean, very stiff, unwea 90 degree dip at base. At 23.35m: fissure. 65 degree dip. Smooth, p polished, very tight, clean, very stiff, unwea 90 degree dip at base. At 24.0m: very silty, with occasional fine gravel-sized patches of dark grey very silty From 24.0 to 28.1m: very silfy, with occasion medium gravel-sized patches of dark grey very silty From 24.0 to 28.1m: very silfy, unwea apposite direction to fissure at 24.2m. At 24.5m: fissure. 65 degree dip. Smooth, p polished, very tight, clean, very stiff, unwea apposite direction to fissure at 24.2m. At 24.6m: fissure. 25 degree dip. Smooth, p polished, very tight, clean, very stiff, unwea at 25.2m: fissure. 55 degree dip. Smooth, p polished,	athered. 10 x 20 x 5 mm. planar, slightly d. both, planar, unweathered. planar, slightly d. both, planar, unweathered. planar, slightly thered. both, planar, unweathered. both, planar, thered. Curves to planar, polished, to medium clay. nal fine to very silty clay. blanar, slightly thered. Parallel blanar, slightly thered. blanar, slightly thered.	26 -
		30.00	D					At 24.3111. IIssure. oo aegree dip. Simooth, p polished, very tight, clean, very stiff, unwea with fissure at 24.3m. At 24.6m: fissure. 15 degree dip. Smooth, p polished, very tight, clean, very stiff, unwea Continued on next sheet	nariar, siigntiy thered. Parallel planar, slightly thered.	-30
Rema Paven 31.5m	rks nent cor	ed 0.0 to 0.15	im. Hai	nd dug 0.15 to 1.2m	n. Dynamic	sampled	1.2 to 6.0r	n. Rotary cored (Geobore-S) 6.0m	n to	S

See-Environmental Image: Second										Borehole N	۱o.
Geo-Environmental Counting Ummittee in the second of the		5					Bo	reho	ole Log	MT-028-	-35
Project Name: London Water Recycling (LWR) Project No. CC-ords: 517167.80 - 171979.57 Hole Type Location: London Longe	Geo-E	nvironm	ental						~	Sheet 7 of	f 7
Location: London Vietness Viet	Projec	t Name:	London W	ater Re	ecycling (LWR)	Project No. GE21665		Co-ords:	517167.60 - 171979.57	Hole Type WLS+RC	e 2
Client: Thames Water Utilities Ltd Dates: 28/10/2024 - Logged by TL Weil Water Sinkes Samples and In Situ Testing Sinkes Depth (m) Type Results Image: Client Situ Testing Legend Stratum Description Image: Client Situ Testing Provide Situ Testing Prov	Locati	on:	London					Level:	7.29	Scale 1:25	
Weiler Strikes Samples and in Situ Testing Depth (m) Depth (m) Type Results Results Level (m) Level (m) Level (m) Level (m) Strike	Client	:	Thames W	/ater Ut	tilities Ltd			Dates:	28/10/2024 -	Logged B	y
Well Strikes Depth (m) Type Results Open (m) Type Results 30.00 N=50 (9,1050 for 200mm) N=50 (9,1050 for 200mm) At 25 on them; 35 dyre (0, 300m) At 25 dyre (0, 300m) At 35 dyre (0, 300m)<		Water	Samples	s and I	n Situ Testina	Depth		-			
30.00 N=50 (8,1000 for 230mm) 230mm) Af 24 million factors, why are applied and system of the same of a system of 230 for 100 million factors, why are applied and system of the same of a system of the same of a system of 33 million factors, why are applied and system of the same of a system of the same of a system of the same of a system of the same of a system of the same of a system of the same of a system of the same of a system of the same of a system of the same of a system of the same of a system of the same of a system of the same of a system of the same of a system of the same of the same of a system of the same of a system of the same of a system of the same of a system of the same of a system of the same of a system of the same of a system of the same of a system of the same of a system of the same of a system of the same of a system of the same of a system of the same of a system of the same of a system of the same of a system of the same	Well	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legend	Stratum Descriptior	١	
	Rema	rks	30.00 30.50 31.00 31.50	D	N=50 (9,10/50 fo 290mm)	31.50	-24.21		At 24.6m: fissure. 85 degree dip. Smooth, j polished, very tight, clean, very stiff, unweat Ferminates against other fissures. At 25.2m: fissure. 25 degree dip. Smooth, j polished, very tight, clean, very stiff, unweathered. At 26.3m: fissure. 55 degree dip. Smo slightly polished, very tight, clean, very stiff At 26.5m: 10mm thick layer of dark brown sandy very slight (LAV. Sand is fine. At 26.6m: parting of dark grey sandy silt. S 26.6 to 26.8m: fissure. 70 degree dip. Smooth, polished, very tight, clean, very stiff At 26.7m: fissure. 70 degree dip. Smooth, polished, very tight, clean, stiff, unweat At 26.7m: fissure. 15 degree dip. Smooth, polished, very tight, clean, very stiff, unweat At 26.7m: fissure. 50 degree dip. Smooth, polished, very tight, clean, very stiff, unweat At 27.4b: fissure. 50 degree dip. Smooth, very tight, clean, very stiff, unweathered. 27.5 to 27.5m: fissure. 50 degree dip. Smooth, very tight, clean, very stiff, unweathered. 27.5 to 27.5m: fissure. 50 degree dip. Smooth, very tight, clean, very stiff, unweathered. 27.5 to 27.9m: fissure. 75 degree dip. Smooth, very tight, clean, very stiff, unweathered. 27.5 to 27.9m: fissure. 75 degree dip. Smooth, very tight, clean, very stiff, unweathered. 27.5 to 27.9m: simunations indistinct. 27.7 to 27.8m: fissure. 75 degree dip. Smooth, very tight, clean, very stiff, unweathered. 27.5 to 29.1m: fissure. 85 degree dip. Smooth, slightly polished, very tight, clean, very stiff 28.9 to 29.4m: surface of core degraded (s out) during drilling. Extremely closely fissur At 29.4m: medium gravel-sized fossilised v Subrounded. 29.45 to 29.5m: slightly sandy. Sand is fine. 24.30.5m: 30mm thick nodule of very wea claystone. At 30.5m: 30mm thick nodule of very sea claystone. At 30.5m: 50 app.7m: fissure. 75 degree dip. Smooth, j very tight, clean, very stiff. 30.6 m: 5mm thick layer of dark grey silt Sand is fine. At 30.5m: 50 app.7m: fissure. 45 degree dip. Smooth, j very tight, clean, very stiff. unweathered. 20.5m: 50 app.7m: fissure. 45 degree dip. Smoth,	Danar, slightly thered. Danar, slightly thered. Danar, slightly thered. Danar, polished, Doth, planar, unweathered. ish grey slightly and is fine. planar, slightly thered. and is fine. planar, slightly thered. oth, planar, curveathered. planar, polished, oth, planar, curveathered. planar, polished, oth, planar, curveathered. ish planar, curveathered. planar, polished, oth, planar, curveathered. tightly washed ed. vood fragment. e. ooth, planar, curveathered. k light brown silty y sandy clay. blanar, polished, n	31

I

		Unit 7 Hurstr	Danw	orth Farm		Da	rohe		Borehole No.
Goo.F		BN6 9	GL	+		DC	nenc	Jie Log	IVI I -U3U-35
Projec	t Name:	London	Water F	L Recycling (LWR)	Project No. GE21665		Co-ords:	516384E - 174243N	Hole Type CP+RC
Locatio	on:	London			Energy Ratio	(%):	Level:	5.71	Scale
Client:		Thame	s Water	Utilities Ltd	Rig Ty	pe:	-Dates:	06/11/2024	Logged By
				City Testing					CG / TL
Well	vvater Strikes	Depth (m)		Results	(m)	(m)	Legend	Stratum Description	
		0.30 0.30 0.30	B ES PID	PID=0.0ppm				Dark brown silty slightly clayey gravelly fine to medium. Gravel is fine to mediun subrounded flint, brick with broken glass clinker. MADE GROUND	SAND. Sand is n subangular to s, possible
		0.80 0.80 0.80	B ES PID	PID=0.0ppm	0.60	5.11		Firm greyish brown and red silty sandy s CLAY. Sand is fine. Gravel is fine to mee to subrounded flint. ALLUVIUM	slighty gravelly fium subangular 1 -
		1.20 1.20 1.20 1.20	B ES SPT PID	N=7 (1,1/1,1,2,3 PID=0.0ppm)				
		2.00 2.00 2.00 2.00	B ES SPT PID	N=4 (1,1/1,1,1,1 PID=0.1ppm)			2.0 to 2.6m: becoming very sandy. At 32.22m: fissure. 15 degree dip. Smooth, plana clean, very stiff, unweathered.	2 - r, polished, very tight,
		3.00	в		2.60	3.10		Firm greyish brown and red silty sandy s CLAY interbedded with PEAT, 100mm la dark brown silty, slight organic content. Gravel is fine to medium subangular to ALLUVIUM	slightly gravelly ayers. Peat is Low grade. subrounded flint. 3 -
		3.00 3.00 3.00	ES SPT PID	N=0 (1,0/0,0,0,0 PID=0.2ppm) 3.10	2.60		Soft grey SILT. ALLUVIUM	
		4.00 4.00 4.00	B ES CPT PID	N=16 (1,2/2,3,5,6	3.90	1.80		Medium dense greyish brown sandy silt Sand is fine to medium. Gravel is fine to subangular to rounded flint. KEMPTON PARK GRAVEL	y GRAVEL. • coarse 4 -
		4.00 5.00 5.00	BES	-Uppm	5.00	0.70		Medium dense brown silty very gravelly fine to coarse. Gravel is fine to coarse s rounded flint. Occasional flint cobbles. KEMPTON PARK GRAVEL	SAND. Sand is ubangular to 5 -
	Casing	Water St	rikes (mbgl)	Chiselling (mbg	(i) Remarks				
Diamet	er Dept	h (m) Depth Strike 3.20	Rose to 2.80	Depth from	Hand dug gro 45.0m. Prelin	ound level to 1 ninary London	.2m Cable Percus Clay Formation s	ssive 1.2 to 13.2m Rotary Cored (Geobore-S) 13.2 to subdivisions based on visual logs only.	AGS

		Unit	7, Danw	orth Farm				Borehole No.				
		Hurs BN6	tpierpoii 9GL	IT		Bc	oreho	ole Log	MT-030-3	35		
Geo-E	nvironn	nentalwww	.gesl.ne	t				U	Sheet 2 of 1	0		
Projec	t Name:	Londo	on Water F	Recycling (LWR)	Project No. GE21665		Co-ords:	516384E - 174243N	Hole Type			
Loooti	<u></u>	Lond	22		Energy Ratio	0 (%):		6 71	Scale			
Localio	JII.	Lond			Driller's Initial:		Level.	5.71	1:25			
Client:		Tham	ies Water	Utilities Ltd	Rig Ty	/pe:	Dates:	06/11/2024	CG / TL			
\A/~!!	Water	Sam	ple and l	n Situ Testing	Depth	Level	Langed					
vveii	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legend	Stratum Description				
		Depth (m) 5.00 5.00 6.00 6.00 6.00 6.00 7.00 7.00 7.00 7.00 7.00	B ES CPT PID B ES CPT PID B ES CPT PID	Results N=23 (3,4/5,6,6, PID=0.5ppm N=26 (4,5/6,8,6, PID=0.4ppm N=11 (2,3/3,2,3, PID=0.1ppm	6) 7.00 3)	-1.30		Medium dense brown silty very gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subangular to rounded flint. Occasional flint cobbles. KEMPTON PARK GRAVEL 6.0 to 7.0m: increasing abundance of coarse gravel. 6.0 to 7.0m: increasing abundance of coarse gravel. Medium dense greyish brown silty very gravelly SAND. Sand is fine to coarse. Gravel is mostly fine with some medium subangular to rounded flint. KEMPTON PARK GRAVEL				
		8.00 8.00 8.00 8.00	B ES CPT PID	N=14 (2,3/2,3,4, PID=0.2ppm	5)					8 -		
		9.00 B 9.00 ES 9.00 SPT N=12 (2,2/3,2,3,4) 9.00 PID PID=0.0ppm					9 -					
		10.00 10.00 10.00	B ES SPT	N=16 (2,2/3,4,4,	5)	-4.30		Stiff grey silty slightly sandy CLAY with of greenish grey claystone. LONDON CLAY FORMATION	several nodules	10 -		
Diamet	Casing er Dept	Water h (m) Depth Str	Strikes (mbgl) ike Rose t	Chiselling (mb Depth from De	epth to	ound lovel to 1	2m Cabla Bara	cive 1.2 to 13.2m Rotany Carod (Cashara 5) 12.2+-				
		3.20	2.80		45.0m. Prelii	minary London	Clay Formation s	subdivisions based on visual logs only.	AGS	}		

		Uni	t 7, Dar	nwor	th Far	m						Borehole N	0.
	9	Hur	stpierp	oint					MT-030-	35			
Geo-E	nvironn	nentalww	w.gesl.i	net							0.0 209	Sheet 3 of 1	10
Projec	t Name:	Lond	don Wate	er Rec	ycling	(LWR) P	roject No.		Co-ords:	516384E - 174243N	Hole Type	9
							6	E21665 Energy Ratio	(%):			Scale	
Locatio	on:	Lon	don				D	riller's Initial:	()	Level:	5.71	1:25	
Client:		Tha	mes Wat	er Uti	lities Lt	d	_	Rig Ty	/pe:	Dates:	06/11/2024	Logged By	
	Water	Sa	mnle an	d In S	itu Tos	tina		Donth					
Well	Strikes	Depth (n	n) Tvr	e l	Re	esults		(m)	(m)	Legend	Stratum Description		
		<u>Depth (n</u> 10.00	n) Typ Pit	T	N=12 (1	sults 0.0pp	m ,3,4)				Stiff grey silty slightly sandy CLAY with s of greenish grey claystone. LONDON CLAY FORMATION	several nodules	11 -
			0 - 13 50					12.90	-7.20		Stiff very thinly laminated very closely fit brown silty CLAY. [Preliminary London (subdivision B2]. LONDON CLAY FORMATION 13.0 to 13.4m: extremely closely fissured.	ssured greyish Clay Formation	13 -
		12.90 - 13.	.50	10	0 100	0					At 13.35m: with laminations of dark arev silty fine sand.		-
	Casing	13.50 13.50 - 15. 14.00 14.50 15.00 15.00 - 16. wat	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		m m 			At 13.65m: fissure. 90 degree dip. Smooth, planar, polis At 13.65m: fissure. 90 degree dip. Smooth, undulati stiff, unweathered. 13.7 to 13.9m: fissure. 90 degree dip. Smooth, undulati tight, clean, stiff, unweathered. At 14.0m: 20mm thick layer of light greyish brown silty 14.10.0m: 20mm thick layer of light greyish brown silty 14.10.15.9m: extremely closely fissured, becoming vertice dip. Smooth, undulati 14.11.0m: clean, stiff, unweathered. At 14.2m: coarse gravel-sized nodule of pyrite, highly fr 14.14.14m: three medium to coarse gravel-sized fragment Slightly pyritised. Up to 5mm thick. At 14.75m: fissure. 45 degree dip. Smooth, undulating, stiff, unweathered.	shed, very tight, clean, ng, slightly polished, very CLAY. nry silty below 15.9m. ng, slightly polished, very actured. nts of fossilised wood. dull, very tight, clean,	14			
Diamet	Casing er Dept	Wat h (m) Depth S	ter Strikes (m Strike Ro	bgl) se to	Ch Depth f	iselling rom	(mbgl) Depth t	Remarks		2			
		3.2	0 2	.80				Hand dug gro 45.0m. Prelir	ound level to 1. minary London	2m Cable Percu Clay Formation	ussive 1.2 to 13.2m Rotary Cored (Geobore-S) 13.2 to subdivisions based on visual logs only.	AGS	5

Geo	-Environ	mental						R	otar	у С	ore	Log							
Project	Name: Lo	ondon Water Rec	ycling (L	WR)		C	Client: Th	ames Water	Utilities Ltd			Date: 06/11/2024							
Locatio	n: Londor	l				C	Contracto	or:				Co-ords: E516383.80 N174243.30							
Project	No. : GE2	21665				(Crew Nar	ne:			Drilling Equipment:								
Во	orehole N	umber	Hol	е Туре	е			Level		Logged	Scale	Page Numbe	er						
	MT-030-	35	CF	P+RC			5	5.70m AoD		CG / 1	۲L	1:25	Sheet 4 of 1	0					
Well	Water	Depth (m)	Type /FI	0	Corin	g	iamete ecover (SPT)	Depth (m)	Level	Legend		Stratum Descript	ription						
		15.50	D	100	93	86					Stiff very thinly laminated very closely fissured greyish brown silty CLAY. [Preliminary London Clay Formation subdivision B2]. LONDON CLAY FORMATION 15.35 to 15.6m: fissure. 90 degree dip. Smooth, undulating, dull, very tight, clean, stiff, unweathered. 15.6 to 15.75m: 150mm thick nodule of strong brownish grey claystone. Whole core diameter. Core is disturbed for 50mm above and below nodule.								
		16.00	D				(31)												
		16.50 - 18.00 17.00	D				100mm						17 -						
		17.50	D	73	33	13					17.1 to 17.45 very tight, cle of fissure. At 17.4m: fiss clean, stiff, ur At 17.41m: fiss clean, stiff, ur At 17.5m: fiss clean, stiff, ur 17.5 to 17.55 ight, clean, stiff, ur clean, stiff, ur	m: fissure. 90 degree dip. Smooth, un an, stiff, unweathered. Curves to 10 de sure. 20 degree dip. Smooth, planar, si weathered. Ssure. 20 degree dip. Smooth, planar, weathered. Dips in opposite direction sure. 15 degree dip. Smooth, planar, si weathered. m: fissure. 50 degree dip. Smooth, pla Ssure. 20 degree dip. Smooth, planar, suse. 20 degree dip. Smooth, planar, sweathered.	dulating, slightly polished, egree dip over lower 50mm lightly polished, very tight, slightly polished, very tight, to fissure at 17.4m. lightly polished, very tight, mar, slightly polished, very slightly polished, very tight, 5m						
		18.00 18.00 - 19.50	D				–100mm	18.00	-12.30		17.6 to 18.0m Trun. Recovery Very sti Subdivi LOND(18.0 to 19.3m increased wa	ner. Recovered at top of next clay. red greyish brown n Clay Formation localised horizons with	18 -						
		18.50	D	86	86	0					Increased wash out. Very sity. 18.0 to 18.5m: extremely closely fissured. Tis. To 18.5m: extremely closely fissured. Horizontal and vertical fissures present. Image: State in the state in								
		19.00	D								18.0 to 18.5rr	ione. Whole core diameter.	19						
		19.50 19.50 - 21.00	D				-100mm				Image: Control of the system of the syste								
Hole Diameter Casing Diameter Chisellin								Tool D4	Inclinati	on and Orient	tation	Depth Top Depth Base Type	ng Flush Colour Min (%)	Max (%)					
Rema	rks			μαι τομ	Сери	2038	Juration			Depth Base Inclination Orientation Depth Top Depth Base Type Colour Min (%)									

Hand dug ground level to 1.2m Cable Percussive 1.2 to 13.2m Rotary Cored (Geobore-S) 13.2 to 45.0m. Preliminary London Clay Formation subdivisions based on visual logs only.



Geo-Enviro	nmental										J									
Project Name: L	ondon Water.	r Recycli	ing (L\	NR)		С	lient: Th	ames Wate	er Utilitie	s Ltd			Date: 06	Date: 06/11/2024						
Location: Londo	n					С	Contractor:							Co-ords: E516383.80 N174243.30						
Project No. : GE	21665					С	Crew Name:							quipment:						
Borehole N	Number		Hole	e Type +₽C			5					Ву		Scale		l	Page Numb	er		
	Depth	n T	Гуре	C	orin	g	neter overy PT)	Depth	Le	vel	Logond		<u> </u>	tratum D	locarinti	on	Sheet 5 Or			
vven vvater	(m)		/FI	TCR	SCR	RQD	Diam Recc (SF	(m)	(r	n)		- Verv sti	J				h brown			
	20.00		D	100	100	73						Very sili subdivi From 19.9 to partings of da 19.95 to 20.2: tight, clean, w 20.25 to 20.3:	Itty CLAY. [Preliminary London Clay Formation vision B1]. <u>ION CLAY FORMATION</u> 021.7m: very sitty, slightly sandy. Sand is fine. With occasional tark grey sitt. Laminations indistinct. .25m: fissure. 85 degree dip. Smooth, planar, slightly polished, very very stiff, unweathered. .3m: fissure. 75 degree dip. Smooth, planar, slightly polished, very							
	20.50		D									20.3 to 20.55 At 20.55m: m 20.7 to 20.85n 20.7 to 20.85n 31 20.7 to 20.85 31 20.85 to 21.00 100 100 100 100 100 100 100 100 100	ery stiff, unwo m: very close edium gravel m: pair of sub ed, very tight m: fissure. 80 ery stiff, unwo	ry sur, unweatherea. : very closely fissured. :dium gravel-sized patch of dark grey fine sand. :pair of subparallel fissures. 85 degree dip. Smooth, planar, :d, very light, clean, very stiff, unweathered. fissure. 80 degree dip. Smooth, planar, slightly polished, very						
	21.00 21.00 - 22	2.50	D				(34) 100mm					Y → Light, clean, very stiff, unweathered. Terminates against laminations. Y → Y → Y → Y → Y → Y → Y → Y → Y →								
		D 100 67 6		67						21.4 to 21.6m tight, clean, vi - 21.55 to 21.7/ - very tight, clean direction ever At 21.7m: 10r - coarse gravel - From 21.7 to - - Coarse	: fissure. 85 (ery stiff, unwo m: fissure. 60 an, very stiff, aly along leng nm thick laye -sized fragme m: brow ish	degree dip. Si eathered.) degree dip. S unweathered (th of fissure. r of dark grey ent of lignite. grey.	mooth, planai Smooth, undu . Dip curves t silty sandy c	r, slightly po ulating, slig to 60 degre clay contain	olished, very htly polished, e dip in opposi ing a tabular	'e				
	22.00											Light, clean, vi Light, clean, vi Light, clean, vi Light, clean, very sti Light, clean, very stiff, unw Very stiff, unw 21.85 to 21.91 Light, clean, vi At 21.85m: 15 Drown silty silt 21.95 co 22.00	ery stiff, unwe ery stiff, unwe iff, unweathe sure. 45 deg eathered. 2m: fissure. 9 ery stiff, unwe fimm thick lay ghtly sandy c m: moderatel	ee dip. Smool. eed dip. Smool. red. ree dip. Smool. of degree dip. eathered. er of very stiff lay. Sand is fi v, strong clavs	h, planar, slig bth, planar, slig Smooth, plan f very thinly la ine.	, signity polishe plished, ver nar, slightly aminated lig	ad, very tight, ad, very tight, y tight, clean, polished, very ht greyish	22		
	22.50 22.50 - 24	4.00	D				-100mm					22.0 to 22.5m 22.05 to 22.1 tight, clean, w At 22.15m; per At 22.2m; par At 22.2m; par At 22.5m; 10 22.55 to 22.9 very stiff, unw	: very closely 5m: fissure. 7 ery stiff, unwe nting of light b ting of light b tring of light b arting of light mm thick laye m: fissure. 85 eathered.	r fissured. '5 degree dip. eathered. brown slightly rown slightly s brown slightly s brown slightly s brown slight srow c of light brow i degree dip. S	Smooth, plan sandy silt. sandy silt. sandy silt. sandy silt. rnish grey san Smooth, plan	nar, slightly ndy silt. Sa ar, dull, ver	polished, very nd is fine. y tight, clean,			
	23.00		D	100	100	67						ery stiff, unweathered. 22.55 to 23.5m: extremely closely fissured. 22.95 to 23.0m: contains several coarse sand-sized shell fragme 22.95 to 23.0m: slightly sandy (sand is fine) and greyish brown. At 23.0m: parting of dark grey slightly sandy silt. 23.2 to 23.35m: slightly sandy. Sand is fine. With several partin greyish brown sandy silt. 23.35 to 23.6m: fissure. 90 degree dip. Smooth, planar, slightly					nts. Is of light polished, very pns.	23		
	23.50		D									Itight, clean, very stift, unweathered. Terminates against laminations. 23.34 to 23.6m: fissure. 90 degree dip. Smooth, planar, slighthy polished,								
	24.00 D 100mm 24.00 - 25.50 D 100mm 24.50 D 100mm						24.2 to 24.45 silt. At 24.25m: fo 24.5 to 24.45	. wuu parting n: extremely ssil wood frag rse sand-siz n: dark grev	closely fisure gment. 5mm x ed shell fragm sandy. Sand	d. With occas 30mm x 40r aent. is fine. Lamin	sional partii nm. nations indi	ngs of dark grey	, 24 – , –							
Hole Diameter	Casing	Diameter				Chisell	ling			clinatio	and Orien	tation			Drilling	a Flush				
Depth Base Diamet	ter Depth Base	Diameter	r Dep	th Top	Depth E	Base	Duration	Tool [Depth Top	Depth	Base Inclinati	on Orientation	Depth Top	Depth Base	Туре	Colour	Min (%)	Max (%)		
Remarks																				

Hand dug ground level to 1.2m Cable Percussive 1.2 to 13.2m Rotary Cored (Geobore-S) 13.2 to 45.0m. Preliminary London Clay Formation subdivisions based on visual logs only.



-Environmental

Geo	Name: La		Poqualia		\ \		Cliont. Th		ator Litili	tion I ta				Date: 06	11/2024				
	Name: LC		Recyclin	g (LVK)			lames wa		ties Lta				Date: 00	5540000	00 1474	0.40.00		
Locatio	n: Londor	1					Contracto	or:						Co-ords	E516383	.80 N174	243.30		
Project	No. : GE2	21665				(Crew Na	me:						Drilling E	Equipment				
Bo	Drehole Ni MT-030-	umber 35		Hole Ty CP+R	rpe C		5.70m AoD CG / TI								Scale 1:25			age Numb Sheet 6 of	ber 10
Well	Water	Depth (m)	Ty /F	pe FI TC		ng	Diameter Recovery (SPT)	Dept (m)	h L	_evel (m)	Le	egend	_	Stratum Description					
		25.00		9	3 93	40	- (37)						Very stil subdivis LONDC 24.7 to 24.8m ight, clean, vi 24.85 to 24.99 ight, clean, vi At 24.9m: 307 24.95 to 25.0r ight, clean, vi At 24.9m: 307 24.95 to 25.0r ight, clean, vi At 25.0m: fiss	ery silty CLAY. [Preliminary London Clay Formation ubdivision B1]. <u>ONDON CLAY FORMATION</u> to 24.8m: fissure. 70 degree dip. Smooth, planar, slightly polished, very clean, very silff, unweathered. 51 o 24.95m: fissure. 45 degree dip. Smooth, planar, slightly polished, very clean, very silff, unweathered. 51 o 24.95m: fissure. 45 degree dip. Smooth, planar, slightly polished, very clean, very silff, unweathered. 93m: 30mm thick layer of brown silty slightly sandy clay. Sand is fine. 93m: 30mm thick layer of brown silty slightly sandy clay. Sand is fine. 93m: 30mm thick layer of brown silty slightly sandy clay. Sand is fine. 93m: 50mm thick layer of brown silty slightly sandy clay. Sand is fine. 93m: 30mm thick layer of brown silty slightly sandy clay. Sand is fine. 93m: 10mm thick layer of brown silty slightly sandy clay. Sand is fine. 93m: 10mm thick layer of brown silty slightly sandy clay. Sand is fine. 93m: 10mm thick layer of brown silty slightly sandy clay. Sand is fine. 93m: 50m thick layer of brown silty slightly sandy clay. Sand is fine. 93m: 10mm thick layer of brown silty slightly sandy clay. Sand is fine. 93m: 10mm thick layer of brown silty slightly sandy clay. Sand is fine. 93m: 10mm thick layer of brown silty slightly sandy clay. Sand is fine. 93m: 10mm thick layer of brown silty slightly sandy clay.				25 -	
		25.50 - 27.0	00	47	7 13	0	100mm						zlean, very sti At 25.0m; fiss zlean, very sti At 25.0m; fiss zlean, very sti zlean, very sti zlean, very sti 25.17 to 25.21 degree dip. Si very stiff, unw At 25.3m; fiss zlean, very sti fissures at 25. 25.35 to 25.51 tight, clean, ver 26.3 to 27m; c silty CLAY.	ff, unweather ure. 90 degr ff, unweather the 50 degr ff, unweather im: set of for mooth, plana m: fissure. 6 eathered. ure. 50 degr ff, unweather ure. 50 degr ff, unweather the store of the store the store of the store of t	red. Parallel t ee dip. Smooi red. Terminat ee dip. Smooi red. Parallel t ur parallel fiss ar, slightly poli 0 degree dip. 0 degree dip. ee dip. Smooi red. Dips in o 5 degree dip. 5 degree dip. 5 degree dip. 6 degree dip. 6 degree dip. 7 degree dip. 7 degree dip. 8 degree dip. 9 de	o fissure at th, planar, si se against o fissure at ures spaced shed, very tr Smooth, planar, si pposite dire- Smooth, pla b adamage fra as firm to s	24.95m. ightly polishe ther fissures. ightly polishe 24.95m. 5 to 15mm a ght, clean, ve nar, dull, very ightly polishe ction to set of nar, slightly p por SPT at 25 tiff brownish s	d, very tight, d, very tight, d, very tight, apart. 20 any stiff, v tight, clean, d, very tight, parallel olished, very .5m. grey slightly	26 -
		27.00 - 27.1 27.10	75	D 10	0 66	66	-100mm						27.0 to 28.5m Fissures are o 27.45 to 27.75 slightfy slith C	: very stiff ve losely space	ery thinly lamin ed. turbed. Recov	nated fissure ered as firm	ed brownish g to stiff browr	nrey silty CLAY	27 -
		27.75 - 28. 28.00	50	D 10	0 100	0	–100mm						27.75 to 28.6r washout. Corn 1_ Subhorizoi siightly polish 60mmSet polished, very due to diamet 80 to 90 degr respect to Set tight, clean, ve of core; minim	n: surface o has greate tal, 0 to 10 ad, very tigh 2_Subvertic tight, clean, er of core; n ee dip. Align 2 (viewed ary stiff, unw um visible s	f core disturbe r density of fis degree dip in t, clean, very s al, 80 to 90 d very stiff, unv inimum visible ed 40 degrees down-core). S reathered. Ave spacing is 30m	ed, with loca sures. Fissu varying dire- stiff, unweat egree dip. S veathered. <i>A</i> e spacing is s clockwise i mooth, plan trage spacin m.	lised sections wes are in thi tctions. Smoothered. Space mooth, plana Average spac 20mmSei around core a ar, slightly po g uncertain o	e of partial ree sets: _Sei th, planar, d at 20 to r, slightly ing uncertain 3_Subvertic, axis with lished, very lue to diamete	28 - al, r
		28.50 28.50 - 30.0 29.00	000 C) 93 93	3 93	93	100mm	28.60) -	22.90			Very sti silty to Formati LONDC At 28.65m: 30 28.8 to 29.4m when cut with	ff very thi very silty on subdi N CLAY mm thick la ination a sharp knit	nly lamina CLAY. [Pr vision A3]. FORMATI ver of light bro s indistinct, loc e.	ted fissur eliminary ON whish grey cally not pre-	red browni London C very silty clay sent. Slightly	ish grey Clay gritty feeling	29 -
		29.40 - 29.8	80 -0									- <u>×</u> <u>×</u>	At 29.35m: co	arse gravel-	sized nodule (of claystone	. Subangular,	15 x 30 x	
Hole Depth Bas	Diameter se Diamete	Casing Dia r Depth Base	ameter Diameter	Depth To	p Depth	Chise Base	Iling Duration	Tool	Depth To	Inclinat	ion ai Base	nd Orienta	n Orientation	Depth Top	Depth Base	Drillir Type	ng Flush Colour	Min (%)	Max (%)
Rema	ırks																		

Hand dug ground level to 1.2m Cable Percussive 1.2 to 13.2m Rotary Cored (Geobore-S) 13.2 to 45.0m. Preliminary London Clay Formatic subdivisions based on visual logs only.



Geo	-Environ	mental											Date: 06/11/2024						
Project	Name: Lo	ndon Water Re	cycling (L	WR)		0	Client: Th	ames Wat	er Utili	ties Ltd			Date: 06/11/2	2024					
Locatio	n: London					C	Contracto	or:					Co-ords: E51	16383.80 N1	174243.3	30			
Project	No. : GE2	1665				C	Crew Nar	ne:					Drilling Equip	oment:					
Bo	orehole Nu	umber	Hole	е Туре	9			Level			Logged	I By	S	cale		P	age Numb	ier	
	MT-030-	35 Dopth			`orin	~	ery C	Donth					1	1:25		5	neet / of	10	
Well	Water	Depth (m)	/FI	TCR	SCR	g ROD	Diamet Recove (SPT)			_evei (m)	Legend		Stratum Description						
		. ,			0011	TTOLD	Very stiff very thinly laminated fissured br									rowni	sh grey	-	
											×] silty to -] Format	very silty CLA tion subdivisio	Y. [Prelimin: n A3].	ary Lone	don C	lay	-	
												LOND	ON CLAY FOR sure. 30 degree dip	RMATION	ar, slightly (polishec	l, very tight,	-	
												clean, very st	ean, very stiff, unweathered t 29.95m: 20mm thick layer of liaht brownish arev very silty clay.						
											<u> </u>	At 30.3m: fiss	sure. 40 degree dip tiff. unweathered.	. Smooth, plana	ar, slightly p	oolished	l, very tight,	-	
		30.00	D				(33)				<u> </u>	- At 30.4m: fiss	sure. 40 degree dip nweathered. Paralle	o. Smooth, plana el with fissure at	ar, slightly j t 30.4m.	polisheo	l, very tight,	30 -	
		30.00 - 31.50					100mm					30.4 to 30.5n	n: fissure. 90 degre verv stiff. unweathe	e dip. Smooth, p	planar, slig	thtly poli	ished, very	-	
											<u> </u>	- 30.6 to 30.7n	n: extremely closely	<u>y fissure</u> d. silt				-	
												- <u>At 30.85m: p</u>	arting of dark grey	silt. In Smooth plan	nar slightly	/ nolishr	ed verv tight	-	
												< clean, very st	tiff, unweathered.	e din Smooth	nlanar slic	polisine	ished very	-	
		30.50	D								x-x	tight, clean, v	ery stiff, unweather	red.	planar, sily	nuy pon	isileu, very	-	
											Ê <u>-x</u> -,	At 30.95m: pa	oarse gravel-sized	siit. claystone nodul	le. Subanç	gular, 1	5 x 30 x	-	
				100	60	20						30mm. - At 31.2m: 5m	nm thick layer of ligi	ht greyish browr	n weakly c	emente	d silty clay.		
				100	00	20					<u>x</u>	31.2 to 31.3n - planar, slight	n: two parallel fissu ly polished, very tig	ires spaced15mi <u>ht, clea</u> n, very s	m apart. 90 stiff, unwea	0 degree athered.	e dip. Smooth	· _	
												31.2 to 31.4n At 31.25m: particular	n: very closely fissu arting of dark grey :	ired. silt.				-	
		31.00	D									31.35 to 31.4	m: fissure. 90 degr rerv stiff. unweathe	ree dip. Smooth, red.	, planar, sli	ightly po	olished, very	31 —	
											<u> </u>	- At 31.4m: 15	mm thick layer of v	ery silty sandy C	CLAY with	partings	s of light grey	-	
											<u> </u>	- At 31.5m: pai	rting of light grey si m: fissure_35 dear	ilt. ree din Smooth	nlanar dı	ull verv	tight clean	-	
												very stiff, unv	veathered.		pianai, ac	,,	ugni, oloun,	-	
											<u>x</u>	At 31.62m: co	parse sand-sized s	hell fragment.	aar aliabhli	, naliah,	d . com chimbh	-	
		31.50	D				100mm					clean, very st	tiff, unweathered.	ip. Smooth, plan	iar, siigriliy	, polisile	a, very ligni,	-	
		31.50 - 33.00									<u> </u>	- At 31.65m: fis - clean, very st	ssure. 85 degree di tiff, unweathered. A	ip. Smooth, plan Aligned at 60 deg	iar, slightly grees cloci	kwise to	ed, very tight, other fissure	-	
											<u> </u>	At 31.67m: fis	<u>h (viewed down-co</u> ssure. 10 degree di	o <u>re).</u> ip. Smooth, plan	har, slightly	/ polishe	ed, very tight,	-	
												clean, very st 31.7 to 31.8n	tiff, unweathered. n: very silty slightly	sandy. Sand is	fine. With	several	partings of	-	
											<u>x </u>	- light greyish l - At 31.75m: fis	brown silt. Extreme ssure. 60 dearee di	ely closely fissure ip. Smooth. plan	ed. nar. sliahtlv	v polishe	ed. verv tight.	-	
		32.00	D									- clean, very st	tiff, unweathered. Omm thick layer of	light brownish g	rev verv s	iltv clav		32 —	
												31.9 to 32.0n	n: fissure. 90 degre	e dip. Smooth, p	planar, slig	htly poli	ished, very	-	
				100	100	73					<u> </u>	-31.9 to 32.0n	n: fissure. 90 degre	e dip. Smooth, i	undulating	, slightly	/ polished, ve	ry -	
				100	100	10					<u> </u>	of fissure.	ery sun, unweauter	Convesio 2	.o uegreeu	np eveni	ly over length	-	
												- clean, very st	tiff, unweathered.	. Smooth, plana	ir, siigriuy p	Jonshed	i, very ligril,	-	
· · .° .		32.50	D									<32.0 to 32.2n clean, very st	tiff, unweathered.	e aip. Smooth, j	planar, poli	isnea, v	ery tight,	-	
												2.15 to 32.2 light greyish l	m: very silty slightly brown silt. Extreme	ly sandy. Sand is <u>ely close</u> ly fissure	s fine. With ed. No cle) severa ar lamin	l partings of ations.	-	
											<u> </u>	At 32.2m: two <x 20="" 20mm<="" td="" x=""><td>o subangular tabula</td><td>ar coarse gravel</td><td>-sized clay</td><td>/stone n</td><td>odules. Both</td><td>5 _</td></x>	o subangular tabula	ar coarse gravel	-sized clay	/stone n	odules. Both	5 _	
												- 32.2 to 32.25	im: fissure. 45 degr tiff, unweathered	ree dip. Smooth,	, planar, po	olished,	very tight,	-	
												32.3 to 32.6n	n: fissure. 90 degre verv stiff, unweather	e dip. Smooth, p red. Locally offs	planar, slig	ihtly poli 3mm bu	ished, very subhorizonts	a/ -	
		33.00	D	<u> </u>			100mm				<u> </u>	Argun, orean, very sun, unwearnered. Locally onset by 1 to 3mm by subhorizontal Tesures, giving stepped profile in places. At 32.35m fissure 5 degree din Smooth planar slightly policided year tight						33 -	
		JJ.00 - 34.50										clean, very st	tiff, unweathered	light brownish a	rev venue	ilty clay	, . ,	-	
												- 32.5 to 32.8n	n: extremely closely	y fissured.	light arr	ich h	un siltu	-	
											<u> </u>	claystone.	m: three ner-	exueniely weak	nyn yreyl	an Drow	aroo din	-	
											$\widehat{-x-x}$	- 32.95 to 33.0	m: three parallel fis har, slightly polished	ssures spaced 2 <u>d, very ti</u> ght, clea	an, very st	τ. 30 de iff, unwe	gree dip. eathered.		
		33.50	D	100	100	07						2.95 to 33.0 tight, clean, v	m: fissure. 90 degr ery stiff, unweathe	ree dip. Smooth, <u>red.</u>	, planar, sli	ightly po	olished, very	-	
				100	100	67					<u>x</u>	<- <u>At 33.0m: 40</u> - 33.1 to 33.2n	mm thick very weal n: two parallel fissu	<u>k light g</u> reyish bi ires spaced 10m	rown silty. าm apart. 8	30 degre	e dip. Smoot	h,	
												c_ planar, slightl terminate aga	ly polished, very tig ainst laminations.	ht, clean, very s	tiff, unwea	thered.	Both	-	
												At 33.1m: two planar, slightl	o parallel fissures s ly polished, very tig	paced 10mm ap ht, clean, very s	oart. 5 deg. stiff, unwea	ree dip. athered.	Smooth,		
											<u><u> </u></u>	At 33.15m: fis	ssure. 90 degree di rery stiff, unweather	ip. Smooth, und	ulating, sli	ghtly po	lished, very	-	
		34.00	D								$\underline{\vdash} \underline{-\underline{\times}} \underline{-} \underline{\underline{\times}} \underline{-} \underline{-} \underline{\underline{\times}} \underline{-} \underline{-} \underline{\underline{\times}} \underline{-} \underline{-} \underline{\underline{\times}} \underline{-} \underline{-} \underline{-} \underline{-} \underline{-} \underline{-} \underline{-} $	At 33.2m: fiss	sure. 5 degree dip. tiff. unweathered	Smooth, planar,	; slightly po	olished,	very tight,	34 -	
											<u> </u>	At 33.1m: fou	ir parallel fissures s	spaced 5 to 10m	ım apart. 5	5 degree	e dip. Smooth		
Hole	Diameter	Casing Diam	eter Dev	oth Tor	(Chisel	ling	Tool	Depth T		on and Orien	tation	Depth Top Doo	Di th Basel T	rilling Flu	ish `olour	Min (%)	May (0/.)	
Debui Das	Diameter	Deput Dase Dia	De De	our rop	Depuir	Last	Duration	1001	Берит К	-h Dehu				in Dase Typ		Jour	10111 (20)	IVICIA (70)	
Rema	rks	ı							· · ·	1									

Hand dug ground level to 1.2m Cable Percussive 1.2 to 13.2m Rotary Cored (Geobore-S) 13.2 to 45.0m. Preliminary London Clay Formation subdivisions based on visual logs only.


Rotary Core Log

Geo	-Enviror	imental															
Project	Name: Lo	ondon Water Rec	ycling (L	WR)		0	Client: Th	ames Wate	r Utilities Ltd			Date: 0	6/11/2024				
Locatio	n: Londor	1				C	Contracto	or:				Co-ords	s: E516383.	.80 N1742	243.30		
Project	No. : GE2	21665				C	Crew Nar	me:				Drilling	Equipment:		1		
Bo	orehole N	umber	Hole	е Туре + вС	9		F				By		Scale		F	Page Numb	ier 10
Well	Water	Depth (m)	Type /FI		orin	g	Jiameter tecovery (SPT)	Depth (m)	Level (m)	Legend		S	Stratum D	escript	ion		
		34.50 34.50 - 36.00 35.00 35.50	D	100	67	67	- (36) 100mm				Very Sl silty to Forma LONDU data: slight At 33.1m: fou plana: slight At 33.45m: fi plean, very s reating wed shaped secti a3.6 to 34.1r Smooth, plan 33.6 to 34.1r Smooth, plan 33.6 to 34.25m: fi stot, clean, V 34.0 to 34.97 Hight, clean, V 34.0 to 34.97 Hight, clean, V 34.1 to 34.25m: fi Smooth, plan 4t 34.25m: fi Smooth, plan 35.5 to 35.65	iff very th very silty tion subd ON CLAY imparation of the second second second second second second second second second inf, unweath ge-shaped of an of core is on of core is in subhorization in subhorization	ninly laminal (CLAY, [Pr livision A3]. (FORMATII) Surves spaced 52 very tight, clear gree dip. Smoo lered. Dips in oj section of core i extremely closs esction of core i extremely closs weathered. 0 degree dip. Smoo polished, very til ly fissured. un gravel-sizec gree dip. curving polished, very til un gravel-sizec gree dip. Smoot ered. gree dip. Smoot gree	ted fissur eliminary ON ON is to 10mm aj , very stiff, t sth, planar, s oposite direcci posite di posite direcc	ed browni London C part. 5 degre unweathered lightly polish tilon to fissur he two fissur he two fissur he two fissur haced at 10 to ery stiff, unw har, slightly pol ar, slightly pol ess towards - ery stiff, unw hodules. ghtly polishe lightly polishe lightly polishe	ish grey Clay e dip. Smooth, ed, very tight, ed, very tight, eat 34.45m, es. Wedge- o 80mm. reathered. oolished, very wilshed, very edge of core. reathered. d, very tight, ed, very tight, shed, very tight,	35 -
		36.00 36.00 - 37.50	D				–100mm				Clean, very s	n: fissure. 8:	ered. 5 degree dip. Si	mooth, undu	lating, polish	ned, very tight,	36 -
		36.50	D	100	100	87					<u>clean, very s</u> 36.4 to 36.5r <u>tight, clean, v</u> 36.4 to 37.1r varying dip a <u>tight, clean, v</u> 36.5 to 36.5t <u>clean, very s</u> -36.5 to 36.8r	tiff, unweath n: fissure. 50 very stiff, un n: lamination nd dip direc very stiff, un m: fissure. 9 tiff, unweath n: fissure. 90	ered. 0 degree dip. Si weathered. ns indistinct, ve. tion, Smooth, p. weathered. 50 degree dip. Si 0 degree dip. Si	mooth, plana ry closely fis lanar, slightlj Smooth, plan mooth, plana	ar, slightly po sured. Fissur y polished to nar, polished, ar, polished,	lished, very res are of polished, very , very tight, very tight,	,
		37.00	D								37.15 to 37.6	tiff, unweath	ered. sandy. Sand is f	īne. Fissures	s medium sp	aced.	37 -
		37.50 37.50 - 39.00	D				-100mm	37.60	-31.90		Very st	iff fissure	ed brownish	grey very	y silty slig	htly	
		38.00	D	97	97	80					Jarting Londoi JONDO 37.6 to 40.0rr 37.6 to 40.0rr 37.6 to 40.0rr tight, clean, v fissure at sar	Is of light n Clay Fo ON CLAY n: fissure. 90 very stiff, uni n: fissure. 90 very stiff, uni ne depth.	greyish bro ormation sul <u>/ FORMATIO</u> 0 degree dip. Si weathered. structuring or co 0 degree dip. Si weathered. Orie	wwn silt. [F bdivision / ON mooth, plane mooth, plane entated at 90	Preliminar A2]. ar, slightly po inations. ar, slightly po) degrees to	lished, very lished, very other vertical	38 -
		38.50	D								37.6 to 40.0r tight, clean, v	n: fissure. 90 very stiff, un	0 degree dip. Si weathered.	mooth, plana	ar, slightly po	lished, very	
Hole	Diameter	Casing Diame	ter			L Chisel	lling		I Inclinat	ion and Orient	l ation		.	Drillin	g Flush		
Rema	rks	r Depth Base Diam		oth Top	Depth	Base	Duration					Depth To	p Depth Base	I ype	Colour	Min (%)	Max (%)

Hand dug ground level to 1.2m Cable Percussive 1.2 to 13.2m Rotary Cored (Geobore-S) 13.2 to 45.0m. Preliminary London Clay Formation subdivisions based on visual logs only.



Car								R	ota	ar	y Co	ore	Log	3				
Project	-Environ Name: Lo	mental andon Water Red	cycling (L	WR)		C	Client: Th	ames Wate	er Utilities	Ltd			Date: 06/	11/2024				
Locatio	n: London	I		,		C	Contracto	r:					Co-ords:	E516383.	.80 N1742	243.30		
Project	No. : GE2	21665				C	Crew Nan	ne:					Drilling Ed	quipment:				
Bo	orehole Nu	umber	Hol	е Туре	e			Level			Logged I	Ву		Scale		F	age Numb	er
	MT-030-	35		P+RC			5 5	.70m AoD		.	CG / TI			1:25		6	Sheet 9 of 7	10
Well	Water	Depth (m)	Type /FI	TCR	SCR	RQD	Diamete Recover (SPT)	Depth (m)	Lev (m	vel I)	Legend		St	ratum D)escripti	ion		
		39.00 39.00 - 40.50 39.50	D				-100mm					Very sti sandy (parting: Londor LONDC	iff fissured CLAY with s of light gr Clay Forn ON CLAY F	brownish rare very reyish bro nation sul FORMATI	grey very thin lamir wwn silt. [F odivision / ON	y silty sligi hations, le Preliminar A2].	ntly inses or y	39 -
		40.00	D	97	67	67						40.0 to 40.4m very stiff, unw	n: fissure. 90 d veathered.	legree dip. Si	mooth, plana	ar, dull, very t	ight, clean,	40 -
		40.50 40.50 - 42.00	D				-100mm					40.7 to 41.85	m: faintly lamin	nated. Lamin	nations are ve	ery thin to thi	n.	
		41.00	D								×× ×× ×× ×× ×× ××	41.1 to 41.3m	n: dark greenis	sh grey, glaud	conitic.			41 —
		41.50	D	100	100	93						At 41.65m: fis	ssure. 45 degra	ree dip. Smoo	oth, planar, p	olished, very	tight, clean,	-
		42.00 42.00 - 43.50	D				-100mm					41.85 to 42.11	m: dark greeni n: very thinly la	ish grey, glau aminated, silt	uconitic. y to very silty	y. No sand pi	esent.	42 -
		42.50	D									42.2 to 43.1m At 42.5m: two 40mm length.	n: no lamination o fragments of . 2) semicircul	ns present. \ slightly pyriti lar cross sec	/ery silty, slig ised fossilise tion, 15mm c	ghtly sandy (s d wood. 1) 7 diameter, 201	sand is fine). mm diameter, nm length.	
		43.00	D	100	100	100						43.1 to 44.3m fissured.	n: very thinly la	aminated, silt	y to very silty	y. No sand pr	esent. Closely	, 43 -
		43.50 43.50 - 45.00	D				-100mm					43.35 to 43.5 tight, clean, v	m: fissure. 90 ery stiff, unwei	degree dip. s athered.	Smooth, plan	nar, slightly p	olished, very	
Hole	Diameter	Casing Diam	eter			Chise	ling		Inc	lination	and Orienta	ation			Drillin	g Flush		
Depth Bas	e Diameter	r Depth Base Diar	meter De	pth Top	Depth	Base	Duration	Tool [Depth Top	Depth B	ase Inclination	n Orientation	Depth Top	Depth Base	Туре	Colour	Min (%)	Max (%)
Rema	rks																	

Hand dug ground level to 1.2m Cable Percussive 1.2 to 13.2m Rotary Cored (Geobore-S) 13.2 to 45.0m. Preliminary London Clay Formation subdivisions based on visual logs only.



	=							R	ota	ry		ore	Log				
Geo Project	-Environ	mental	Recycling (0	Client: Th	ames Water	Litilities I	td			Date: 06/11/2024				
Locatio	n: Londor						Contracto						Co-ords: E516383	.80 N174	243.30		
Project	No. : GE2	21665					Crew Nar	ne:					Drilling Equipment				
Bo	orehole N	umber	Но	le Type	е			Level			Logged I	Ву	Scale			Page Numbe	er
	MT-030-	-35	C	P+RC			5	5.70m AoD			CG / TI	L	1:25			Sheet 10 of 2	10
Well	Water	Depth (m)	n Type /Fl	tCR	SCR	RQD	Diamete Recover (SPT)	Depth (m)	Leve (m)		egend		Stratum [Descript	ion		
		44.00	D	93	67	67						Very sti sandy (parting: Londor LONDC At 44.05m: cc fine. 44.3 to 45.0m: th8n lenses o	Iff fissured brownish CLAY with rare very s of light greyish bro of Clay Formation su DN CLAY FORMATI harse gravel-sized patch o	n grey ven thin lamin own silt. [F bdivision ON f light grey sl	y silty s nations Prelimii A2]. ightly sar	slightly , lenses or nary ndy silt. Sand is Occasional very	44 -
		44.50	D					45.00	-39.30					-	00		- 45 -
		40.00						40.00	-09.00				End of Boreh	ole at 45.0	00m		40
																	46
																	47
	Diamotor	Copies	Nometer 1			Chine				otica	and Orient	tion		Dealler	g Elizab		48 -
Depth Bas	biameter se Diamete	r Depth Base	Diameter De	epth Top	Depth	Base	Duration	Tool De	pth Top De	pth Ba	se Inclination	n Orientation	Depth Top Depth Base	Type	Colo	ur Min (%)	Max (%)
Rema Hand di subdivis	rks ug ground sions base	l level to 1.2 ed on visual	m Cable Pe logs only.	rcussiv	/e 1.2	to 13.	.2m Rota	ry Cored (Ge	eobore-S)	13.2	to 45.0m.	. Preliminar	y London Clay Forr	nation			

AGS

		Un Hu	it 7, Dan rstpierpo	worth Farm int					Borehole No).
0		BN	6 9GL			RO	reno	DIE LOG	MT-031-3	35f
Geo-E	nvironn	nentalww	/w.gesl.n	et	Project No.				Sheet 1 of 7 Hole Type	7
Projec	t Name:	Lon	don Water	Recycling (LWR)	GE21665		Co-ords:	517611E - 171420N	СР	
Locatio	on:	Lor	ndon		Energy Rat	io (%):	Level:	8.28	Scale	
Client [.]		The	ames Wate	r I Itilities I td	Rig 1	Гуре:	-Dates:	17/01/2025 - 24/01/2025	Logged By	,
					Dando	2000	Dates.	17/01/2023 - 24/01/2023	TL	
Well	Water Strikes	Sa	mple and	In Situ Testing	Depth (m)	Level (m)	Legend	Stratum Descriptio	n	
		0.30 0.30 - 0. 0.30 0.30	50 ES PID 00 B	PID=0.2ppm	0.20	8.08 7.58		Sandy gravelly SILT. Gravel is fine to subangular to subrounded flint and br rootlets and rare roots up to 2mm dia MADE GROUND MADE GROUND comprising dark bro clayey SAND. Gravel is fine to coarse subrounded flint, brick, concrete, clink cobbles of brick, rare boulder. Rare ro MADE GROUND 0.2 to 0.4m: with occasional rootlets. At 0.25m: a whole brick. 0.4 to 0.7m: very clayey. MADE GROUND comprising brown g clayey SAND. Gravel is fine to coarse subrounded flint, brick and clinker.	redium medium ick. Occasional meter. wwn gravelly angular to ker. Occasional pots 2mm.	
		0.80 1.00 - 1.3 1.20 1.20 1.20	20 PID 20 B ES SPT PID	PID=0.1ppm N=22 (1,3/6,3,5, PID=0.0ppm	8)			MADE GROUND <u>1.0 to 1.4m: decreasing brick and</u> clinker conte	ənt.	1
		2.00 2.00 - 2. 2.00 2.00	45 ES B CPT PID	N=31 (4,4/5,10,9 PID=0.0ppm	1.40	6.88		Dense brown SAND and GRAVEL. G fine to medium, occasional coarse an subrounded flint. Sand is medium to o KEMPTON PARK GRAVEL	ravel is mostly gular to coarse.	2 -
		3.00 3.00 - 3. 3.00 3.00 3.00	45 ES B CPT PID	N=33 (2,2/6,6,10, PID=0.0ppm	.11)	5.58		Dense brown gravelly SAND. Gravel angular to subrounded flint. Sand is n medium occasional coarse. KEMPTON PARK GRAVEL 3.0 to 3.7m: decreasing gravel content.	is fine to medium nostly fine to	3 -
		3.40 - 6.0 4.00	00 EW ES		3.70	4.58		Medium dense locally soft brown SAI Gravel is mostly fine to medium, occa angular to subrounded flint. Sand is n coarse. KEMPTON PARK GRAVEL	ND and GRAVEL. isional coarse nedium to	4
Diamet	Casing er Dept	Wa h (m) Depth	ter Strikes (mbg Strike Rose	l) Chiselling (mb to Depth from De	epth to Remark	is				
200 150	10.	.50 5.2 .50	20 3.4	5	Hand dug Formation	ground level to 1 a subdivisions bas	2m. Cable Per ed on visual lo	cussive 1.2 to 25.5m. Preliminary London Clay gs only.	AGS	}

Geo-E		nental	Unit 7, Hurstp BN6 9 www.g	, Danw bierpoi GL jesl.ne	vorth Farm nt			Во	reho	ole Log	Borehole N MT-031-3 Sheet 2 of	o. 35f 7
Projec	ct Name:		London	Water I	Recycling (LWR)	Project No	0.		Co-ords:	517611E - 171420N	Hole Type	9
Locat	ion:		London			Energy R Driller's In	Ratio (nitial:	(%): JS	Level:	8.28	Scale 1:20	
Client	:		Thames	s Water	Utilities Ltd	Ri	g Typ ndo 20	e: 000	Dates:	17/01/2025 - 24/01/2025	Logged By TL	у
Well	Water Strikes	Dam	Sample	e and Ir	n Situ Testing	Dep (m	oth ı)	Level (m)	Legend	Stratum Description	1	
Well	Strikes	Dep 4.00 4 4 5 5.00 5 5 5 5 .00 6 6 6 6 6 7.00 7 .00		Type B CPT PID ES B CPT PID CPT PID UT	Results N=14 (2,2/3,3,4, PID=0.0ppm) N=1 (2,1/0,0,1,0 PID=0.0ppm) N=10 (4,2/2,3,2, PID=0.0ppm)	(m 4) 3) 6.3	0	1.98	Federation Federation <td>Stratum Description Medium dense locally soft brown SAN Gravel is mostly fine to medium, occass angular to subrounded flint. Sand is m coarse. KEMPTON PARK GRAVEL 5.0 to 6.0m: several flint cobbles. So to 6.0m: several flint cobbles. Very stiff very thinly laminated extremed closely fissured brownish grey silty slig CLAY. Sand is fine. With patches and 'of light grey silty fine sand. Fissures grey smooth, clean and slightly polished. [P London Clay Formation Subdivision C differentiate subunit]. LONDON CLAY FORMATION</td> <td>a D and GRAVEL. sional coarse edium to elium to ely to very phtly sandy very thin lenses enerally planar, Preliminary . Unable to</td> <td>5 - 5 - 7 - 7 - 8 -</td>	Stratum Description Medium dense locally soft brown SAN Gravel is mostly fine to medium, occass angular to subrounded flint. Sand is m coarse. KEMPTON PARK GRAVEL 5.0 to 6.0m: several flint cobbles. So to 6.0m: several flint cobbles. Very stiff very thinly laminated extremed closely fissured brownish grey silty slig CLAY. Sand is fine. With patches and 'of light grey silty fine sand. Fissures grey smooth, clean and slightly polished. [P London Clay Formation Subdivision C differentiate subunit]. LONDON CLAY FORMATION	a D and GRAVEL. sional coarse edium to elium to ely to very phtly sandy very thin lenses enerally planar, Preliminary . Unable to	5 - 5 - 7 - 7 - 8 -
Diame 200 150	Casing tter Dept 0 10 0 14	h (m) [] .50 .50	Water Str Depth Strike 5.20	ikes (mbgl) Rose to 3.45	Chiselling (mbg Depth from Dep	gl) Rema oth to Hand c Format	arks dug grou tion sub	und level to 1 odivisions bas	.2m. Cable Pero ed on visual log	cussive 1.2 to 25.5m. Preliminary London Clay gs only.	AGS	S

		Un	it 7, Dar	worth Farm						Borehole N	0.
	-	Hu BN	irstpierp I6 9GL	oint			Bo	reho	ole Log	MT-031-3	35f
Geo-l	Environr	nental _{WM}	w.gesl.r	net				1		Sheet 3 of	7
Proje	ct Name:	Lor	ndon Wate	r Recycling (LV	VR)	Project No.		Co-ords:	517611E - 171420N	Hole Type	e
					· (SE21665	(0/).			CP	
Locat	ion:	Lor	ndon			Driller's Initial	(%).	Level:	8.28	1·20	
						Rig Typ	be:			Logged By	v
Client	-	lha	ames Wat	er Utilities Ltd		Dando 2	2000	-Dates:	17/01/2025 - 24/01/2025	TL	•
	Water	Sa	mple and	In Situ Testin	g	Depth	Level				
vveii	Strikes	Depth (m) Typ	e Result	ts	(m)	(m)	Legend	Stratum Description	1	
Well	Strikes	Depth (8.50 9.00 9.50 10.00 10.00 - 10 10.50 11.50 - 11 11.50	1.95 D	 N=18 (2,3/3) 	9 ts	Depin (m)	-3.22	Legend N <td>Very stiff very thinly laminated extreme closely fissured brownish grey silty slig CLAY. Sand is fine. With patches and of light grey silty fine sand. Fissures grey smooth, clean and slightly polished. [File London Clay Formation Subdivision C differentiate subunit]. LONDON CLAY FORMATION 10.0 to 13.0m: possible bioturbation. 10.0 to 13.0m: possible bioturbation. At 10.5m: fine sand-sized shell fragment. Very stiff extremely to very closely fiss brown silty CLAY. Fissures generally p</td> <td>ured greyish lanar, smooth,</td> <td>9</td>	Very stiff very thinly laminated extreme closely fissured brownish grey silty slig CLAY. Sand is fine. With patches and of light grey silty fine sand. Fissures grey smooth, clean and slightly polished. [File London Clay Formation Subdivision C differentiate subunit]. LONDON CLAY FORMATION 10.0 to 13.0m: possible bioturbation. 10.0 to 13.0m: possible bioturbation. At 10.5m: fine sand-sized shell fragment. Very stiff extremely to very closely fiss brown silty CLAY. Fissures generally p	ured greyish lanar, smooth,	9
		12 00							Formation Subdivision C. Unable to di subunit]. LONDON CLAY FORMATION At 11.5m: medium gravel-sized claystone nodu	y London Clay fferentiate /e.	
	Cacing		ater Striker /r-h	(d)	ng (mhal)						
Diame 20 15	eter Dept 0 10 0 14	.50 5.2	Strike Ros 20 3.	e to Depth from 45	Depth	to Hand dug gro Formation su	ound level to 1 bdivisions bas	2m. Cable Pere ed on visual log	cussive 1.2 to 25.5m. Preliminary London Clay gs only.	AGS	5

		Unit	7, Dan	worth Farm						Borehole N	0.
		Hur BN6	stpierpo 3 9GL	pint			Bo	reho	ole Loa	MT-031-;	35f
Geo-E	nvironn	nentalww	w.gesl.n	et						Sheet 4 of	7
Projec	t Name:	Lond	lon Wate	Recycling (LV	VR)	Project No.		Co-ords:	517611E - 171420N	Hole Type	Э
						Energy Ratio	(%):			Scale	
Locati	on:	Lond	don		0	Driller's Initial:	JS	Level:	8.28	1:20	
Client:		Thai	mes Wate	er Utilities Ltd	-	Rig Ty Dando 2	pe: 2000	Dates:	17/01/2025 - 24/01/2025	Logged By TL	у
Well	Water	San	ple and	In Situ Testin	g	Depth	Level	Legend	Stratum Description	 I	
	Suikes	Depth (m	n) Type	e Result	S	(11)	(11)	××	Very stiff extremely to very closely fiss	ured arevish	
									brown silty CLAY. Fissures generally p	lanar, smooth, ry London Clay	-
								×_×_×	Formation Subdivision C. Unable to di	fferentiate	-
								×_×_×	LONDON CLAY FORMATION		-
								××			-
		12.50	D								-
								××			-
								<u>×</u> ×			-
								××			-
											-
		13.00 13.00 - 13.	45 UT						13.0 to 14.0m: slightly laminated. 13.0 to 20.0m: silty (no sand content).		13 -
											-
											-
		13 50									
		10.00									-
											-
											-
								××			-
		14.00	D					××	At 14 0m: fine gravel-sized shell fragment		14 -
								<u>×</u> ×			-
								××			-
								××			-
											-
		14.50	D					××			-
											-
											-
											-
		15.00	D						15.0 to 20.5m: slightly laminated.		15 -
											-
								×_×_×			-
								××			-
		15 50						<u>×– </u>			-
		10.00						××			-
								××			-
											-
		16.00	D					××			16 -
	Casing	Wate	er Strikes (mbj	gl) Chisellin	g (mbgl)	Remarks					
Diamet 200	ter Dept	h (m) Depth Si .50 5.20	trike Rose	to Depth from	Depth	Hand dug gr	ound level to 1	2m. Cable Per	cussive 1.2 to 25.5m. Preliminary London Clay		
150	14	.50				. ormation st	0.11510115 085	01, ¥15000 108	,·	AGS	5

		ι	Jnit 7,	Danw	orth Farm							Borehole N	0.
	T	ł	Hurstp 3N6 9	ierpoii GL	nt				Bo	reho	ble Log	MT-031-3	35f
Geo-Ei	nvironr	nental	www.g	esl.ne	t						0	Sheet 5 of	7
Project	t Name:	L	ondon	Water F	Recycling (LV	VR)	Projec	t No.		Co-ords:	517611E - 171420N	Hole Type	•
							SE210	bb5 nv Ratio ((%).			CP Scale	
Locatio	on:	l	London				Driller	's Initial:	JS	Level:	8.28	1:20	
Client:		-	Thames	s Water	Utilities Ltd			Rig Typ	e:	-Dates:	17/01/2025 - 24/01/2025	Logged By	y
								Dando 20	000			TL	
Well	Water Strikes		Sample	and Ir	n Situ Testin	g	_ '	Depth (m)	Level (m)	Legend	Stratum Description		
		16.00 ·	h (m) - 16.45	Type D	Result	S		()	()	<u>×</u>	Very stiff extremely to very closely fiss	ured grevish	
		16	.00	SPT	N=30 (3,3/5	,7,9,9)				<u>~</u> X	brown silty CLAY. Fissures generally p	lanar, smooth,	
										<u>~</u>	Formation Subdivision C. Unable to di	fferentiate	-
										<u>~</u>	LONDON CLAY FORMATION		-
										<u></u>	16.0 to 20.0m: possible bioturbation.		-
		16	.50	D						<u></u>			-
										<u>~</u>			-
										<u>~</u>			-
										<u>~</u>			-
										<u>~</u>			-
		17.00 ·	- 17.45	UT						×_×_×	17.0 to 18.0m; slightly sandy (fine), with indistin	ct laminations.	17 -
										<u></u> X	, , , , , , , , , , , , , , , , ,		-
										<u></u> X			-
										<u></u>			-
										<u></u>			-
		17.45 · 17.	- 17.50 .50	D D						×_×_×	At 17.5m: possible fracture		-
										×_×_×			-
										×_×_×			-
										××			-
										<u></u>			-
		18	.00	D						××	At 18 0m: coarse gravel-sized clavstone nodule		18 -
										××			-
										<u>×</u> ×			-
										<u> </u>			-
										<u> </u>			-
		18	.50	D						<u> </u>	18.5 to 20.5m; very clightly sandy. Sand is fine		-
										<u> </u>	10.3 to 20.5m. very siightiy sanuy. Sanu is inie.		-
										<u></u>			-
										<u> </u>			-
										<u> </u>			-
		19	.00	D						<u> </u>			- 19 —
										<u> </u>			-
										××			-
										<u>×_^_×</u>			-
										××			-
		19	.50	D						××			-
										××			-
													-
													-
													-
		20	.00	D				20.00	-11.72	××			20 -
	Casing		Water Stri	ikes (mbgl)	Chisellin	g (mbgl)		emarks					
Diamete 200	er Dept	h (m) De	epth Strike	Rose to	Depth from	Depth	to H	and dug grou	und level to 1	.2m. Cable Perc	cussive 1.2 to 25.5m. Preliminary London Clay		
150	14	.50	5.20	5.45			Fo	ormation sub	odivisions bas	ed on visual log	is only.	AGS	
													-

		Uni	it 7, Dan	worth Farm						Borehole N	0.
	9	Hui BN	rstpierpo 6.9GI	pint			Bo	reh	ole Loa	MT-031-	35f
Geo-E	nvironn	nental _{WW}	w.gesl.r	et			- •			Sheet 6 of	7
Projec	t Name:	Lon	don Wate	Recycling (LWR) P	roject No.		Co-ords:	517611E - 171420N	Hole Type	9
					F G	E21665	(%) [.]			CP Scale	
Locatio	on:	Lon	don		D	riller's Initial:	JS	Level:	8.28	1:20	
Client:		Tha	imes Wate	er Utilities Ltd		Rig Typ	e:	-Dates:	17/01/2025 - 24/01/2025	Logged By	у
						Dando 2	000			TL	
Well	Water Strikes	Sar	mple and	In Situ Testing		Depth (m)	Level (m)	Legend	Stratum Description	1	
		Deptil (i	п) туре	Results				×_^_×	Very stiff extremely to very closely fiss	ured greyish	-
								××	brown silty CLAY. Fissures generally p clean and slightly polished. [Preliminal	lanar, smooth, ry London Clay	-
								<u>×</u> ×	Formation Subdivision C. Unable to di subunit].	fferentiate	-
								××	LONDON CLAY FORMATION At 20.0m: gastropod fossil.		-
								××	-		-
		20.50 20.50 - 20	.95 D								-
		20.50	SPT	N=35 (3,5/6,8,9	9,12)			××			-
											-
								<u>× </u>			-
		21.00	D								21 -
		21.00 - 21	.45 UT								-
								×_×_×			-
								×			-
								<u> </u>			-
		21.50	D					<u>x</u> x			-
								××			-
											-
								××			-
											-
		22.00									22 -
											-
								×_×_×	-		-
								××			-
		22.50	D					××	22.5 to 25.5m: very thinly laminated. No sand c	ontent Extremely	-
								<u> </u>	closely to closely fissured.		-
											-
								××			
											-
		23.00	D					<u>× </u>			23 -
											-
								××			-
								×_×_×			-
		22 50						××			-
		23.50						<u>×</u> ×	-		-
								<u>x</u> x			-
								××			-
											-
		24.00	D					<u>××</u>			24 -
	Casing	Wat	ter Strikes (mb	l) Chiselling (n	nbgl)	Remarks					I
Diamet 200	er Dept	h (m) Depth 9 .50 5.2	Strike Rose	to Depth from 1	Depth t	Hand dug gro	und level to 1	2m. Cable Per	cussive 1.2 to 25.5m. Preliminary London Clay		
150	14	.50				. 5111011501		0,1 visual 10	g <i>1</i> ,	AGS	5

			Unit 7,	Danv	vorth Farm						Borehole N	0.
	-		Hurstp BN6 9	ierpoi GL	nt			Bo	reho	ole Log	MT-031-3	35f
Geo-E	nvironn	nenta	lwww.g	esl.ne	et				1		Sheet 7 of	7
Projec	t Name:		London	Water	Recycling (LWR)	Project N	lo. 5		Co-ords:	517611E - 171420N	Hole Type CP	•
Locati	on:		London			Energy	, Ratio	(%):	l evel:	8 28	Scale	
	011.					Driller's I	nitial:	JS	20101.	0.20	1:20	
Client:			Thames	s Water	⁻ Utilities Ltd	Da	ndo 2	2000	Dates:	17/01/2025 - 24/01/2025	TL	y
Well	Water Strikes	Dep	Sample	and I	n Situ Testing Results	De (n	pth า)	Level (m)	Legend	Stratum Description		
	Casing	2 25.00 2	4.50 0 - 25.50 5.00	D D SPT	N=36 (5,5/5,7,11,7	(3) 25.	50	-17.22		Very stiff extremely to very closely fissi brown silty CLAY. Fissures generally p clean and slightly polished. [Preliminar Formation Subdivision C. Unable to dif subunit]. LONDON CLAY FORMATION	Im	25
Diame	ter Dept	h (m)	Depth Strike	Rose t	o Depth from Dep	oth to Hand	dug gro	ound level to 1	2m. Cable Per	cussive 1.2 to 25.5m. Preliminary London Clay		
200 150	10	.50 .50	5.20	3.45		Form	ation su	ibdivisions bas	ed on visual lo	gs only.	AGS	S

Annex B1. Soil Chemical Data Screening

Lak Camala Number						210110	210111	210222	210551	210552	210201	210202	210204	210205	210205	210207	224960	224061	249504	240505	249506	240507	249500	222022	222024	201762	270626
Lab Sample Number						310110 MT 010 25	310111 MT 010 25	310333 MT 010 25	318551 MT 010 25	318552 MT 010 25	319201 MT 010 25	319202 MT 010 25	319204 MT-002	319205 MT 002	319206 MT 002	319207 MT-002	324860 MT 005	324861 MT.005	348504 MT 022 25	348505 MT 022 25	348506 MT 033 35	348507	348508 MT 022 25	322823	322824 MT 004	381/63	3/9636
Sample Reference						Mana Cumplied	MI-019-35	Min-019-35	Min-019-55	MIT-019-55	M1-019-35	M1-019-55	MI-003	M1-005	M1-005	M1-005	Min-005	MI-UUS	Min-022-35	Min-022-35	Min-022-35	Mana Cumplied	MIT-022-35	M1-004	M1-004	Mana Cumplied	Mana Cumplied
Denth (m)							11 EQ	12 70	None Supplied	None Supplied	0.30	1.20	E5	2.70	ES 7 70	11 70	None Supplied	1 20	None Supplieu	1 20	None Supplied	7 00	10.00	E5 7 50	E5	None Supplied	
Date Sampled						05/00/2024	05/09/2024	08/00/2024	04/09/2024	04/09/2024	0.30	03/09/2024	12/09/2024	12/00/2024	13/00/2024	13/00/2024	10/00/2024	10/00/2024	00/10/2024	00/10/2024	100	00/10/2024	00/10/2024	17/09/2024	17/09/2024	28/10/2024	0.30
Time Taken						None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied						
	1		-	8		None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied						
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	est Accreditation Status	GAC omercial/Industria I	GAC Public Open Space Residential																						
Stone Content	%	0.1	NONE			< 0.1	25.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	49.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	63.3	24.1	42.5	56.5	54	< 0.1	18.2
Moisture Content	%	0.01	NONE			11	13	15	16	16	6.6	19	2.9	16	18	15	3.6	14	12	6.7	5.3	9.9	8.1	6.4	7	13	11
Total mass of sample received	kg	0.1	NONE			1.2	1.2	1.3	0.8	0.8	0.9	0.9	0.9	1.2	0.9	1.2	2	2	1.1	1.1	1	1.1	1.3	1.1	1.1	0.5	0.7
Asbestos																											
Asbestos in Soil Detected/Not Detected	Туре	N/A	ISO 17025			Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected						
Asbestos Analyst ID	N/A	N/A	N/A			JSW	JSW	MWI	DSA	DSA	MJN	MJN	SSZ	SSZ	SSZ	SSZ	WEM	WEM	KSZ	KSZ	KSZ	KSZ	KSZ	KWB	KWB	PDO	PDO
General Inorganics																											
pH (L099)	pH Units	N/A	MCERTS			7.7	7.5	8	7.6	8.3	8	7.9	7.4	7.3	7.8	7.6	8.3	6.6	7.3	7.6	7.8	8.4	8.7	7.8	7.4	8.9	8
Total Cyanide	mg/kg	1	MCERTS			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS			1000	86	140	2100	1200	230	3600	190	84	110	160	160	4500	84	9.1	30	16	32	120	62	200	34
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS			510	43	67.9	1060	587	115	1790	95.5	42	53.6	79.5	79.3	2270	41.7	4.55	15.2	7.9	16.1	62.3	31	102	17.2
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS			24	< 0.5	1.6	11	12	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	52	< 0.5	< 0.5	< 0.5	< 0.5	0.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Organic Matter (automated)	%	0.1	MCERTS			2	0.7	0.3	1.2	1.3	2.2	1.3	1.2	2.8	3.1	3.8	0.6	1	4.7	0.7	< 0.1	< 0.1	< 0.1	< 0.1	0.3	1.9	2.5
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS						0.7	0.7	1.3	0.7	0.7	1.6	1.8	2.2	0.3	0.6	2.7	0.4	< 0.1	< 0.1	< 0.1	< 0.1	0.2	1.1	1.5
Phenois by HPLC																											
Catechol	ma/ka	0.1	MCERTS			< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Resorcinol	mg/kg	0.1	MCERTS			< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Cresols (o-, m-, p-)	mg/kg	0.3	MCERTS	160000		< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	MCERTS			< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Isopropylphenol	mg/kg	0.1	MCERTS			< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenol	mg/kg	0.1	MCERTS	440	440	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Trimethylphenol (2,3,5-)	mg/kg	0.1	MCERTS			< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Xylenols and Ethylphenols	mg/kg	0.4	MCERTS			< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
								-												-				-			
Total Phenois	ma/ka	1.4	NONE	440	440																						
Total Phenols (HPLC)	шу/ку	1.4	NONE	440	440	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Speciated PAHs																											
Naphthalene	mg/kg	0.05	MCERTS			0.14	1.4	< 0.05	< 0.05	0.06	< 0.05	0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	5.5	0.74
Acenaphthylene	mg/kg	0.05	MCERTS	83000	15000	0.09	< 0.05	< 0.05	< 0.05	0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	8.7	1.9
Acenaphthene	mg/kg	0.05	MCERTS	84000	15000	0.24	4.8	< 0.05	< 0.05	0.25	0.12	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	3.6	0.38
Fluorene	mg/kg	0.05	MCERTS	6300	9900	0.17	2.9	< 0.05	< 0.05	0.34	0.08	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	8.1	0.6
Phenanthrene	mg/kg	0.05	MCERTS	22000	3100	1.9	19	< 0.05	0.42	2.8	1	0.18	0.13	0.12	0.22	0.12	0.53	0.1	0.57	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	65	12
Anthracene	mg/kg	0.05	MCERTS	520000	74000	0.48	3.2	< 0.05	0.1	0.62	0.19	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.05	< 0.05	0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	20	3
Fluoranthene	mg/kg	0.05	MCERTS	23000	31000	4.1	21	0.09	0.91	3.7	1.3	0.35	0.29	0.19	0.43	0.14	1.2	0.2	1.9	0.08	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	94	31
Pyrene	mg/kg	0.05	MCERTS	54000	7400	3.6	18	0.09	0.82	2.9	1.2	0.32	0.25	0.17	0.4	0.13	0.99	0.18	1.8	0.11	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	79	26
Benzo(a)anthracene	mg/kg	0.05	MCERTS	170	29	1.7	7.4	< 0.05	0.4	1.2	0.59	0.13	0.13	0.12	0.2	0.08	0.45	0.07	0.85	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	43	17
Chrysene	mg/kg	0.05	MCERTS	350	57	1.7	6.9	< 0.05	0.41	1.3	0.6	0.17	0.13	0.11	0.26	0.08	0.42	0.07	0.9	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	34	14
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	44	7.1	2	8.7	< 0.05	0.46	1.3	0.69	0.19	0.12	0.15	0.34	0.12	0.63	0.09	1.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	45	19
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	1200	190	1.1	3	< 0.05	0.26	0.58	0.36	0.09	0.08	0.05	0.16	< 0.05	0.23	< 0.05	0.56	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	21	11
Benzo(a)pyrene	mg/kg	0.05	MCERTS	77	10	2	7.6	< 0.05	0.44	1.2	0.64	0.17	0.11	0.1	0.27	< 0.05	0.49	< 0.05	0.93	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	41	19
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	500	82	1.1	3.9	< 0.05	0.25	0.6	0.35	0.1	0.09	0.08	0.18	0.06	0.23	0.05	0.73	0.07	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	22	10
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	3.5	0.57	0.21	0.86	< 0.05	< 0.05	0.11	0.07	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.07	< 0.05	0.25	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	4.5	2.8
Benzo(ghi)perylene	шд/кд	0.05	NUCERIS	3900	040	1.3	4.4	< 0.05	0.27	0.67	0.41	0.11	0.1	0.07	0.22	0.08	0.27	0.06	0.93	0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	23	11
Total PAH							_																				
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025			21.8	113	< 0.80	4.75	17.8	7.62	1.9	1.42	1.17	2.68	0.81	5.54	0.81	10.5	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	518	180

ab Sample Number iample Reference						310110	310111	310333	318551	318552	319201	319202	319204	319205	319206	319207	324860	324861	348504	348505	348506	348507	348508	322823	322824	381763	379636
Sample Reference						MT-019-35	MT-003	MT-003	MT-003	MT-003	MT-005	MT-005	MT-022-35	MT-022-35	MT-022-35	MT-022-35	MT-022-35	MT-004	MT-004	MT-028-35	MT-030-35						
Sample Number						None Supplied	ES	ES	ES	ES	ES	ES	None Supplied	ES	ES	None Supplied	None Supplied										
Depth (m)						9.00	11.50	13.70	2.00	5.00	0.30	1.20	0.50	3.70	7,70	11.70	0.30	1.20	0.30	1.20	4.00	7.00	10.00	7.50	9,50	0.3	0.30
Date Sampled						05/09/2024	05/09/2024	08/09/2024	04/09/2024	04/09/2024	03/09/2024	03/09/2024	12/09/2024	12/09/2024	13/09/2024	13/09/2024	19/09/2024	19/09/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	17/09/2024	17/09/2024	28/10/2024	06/11/2024
Time Taken						None Supplied	None Sunnlied	None Supplied	None Supplied	None Sunnlied	None Supplied																
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	GAC Comercial/Industria I	GAC Public Open Space Residential																						
Heavy Metals / Metalloids																											
	ma/ka	1	MCEDTS	640	70	16	47	16	14	12	14	10	12	15	12	1 12	1 14	12	20	- 11	10	21	12	25	11		15
Arsenic (aqua regia extractable)	mg/kg	1	MCEDTS	22000	/5	10	4.7	10	14	15	14	10	15	13	110	12	14	12	120	41	10	21	15	25	20	12	15
Barlum (aqua regia extractable)	mg/kg	1	MCEDITE	12	22	130	50	81	/5	60	130	/4	50	130	110	100	28	45	130	41	18	20	7.9	29	28	190	110
Beryilium (aqua regia extractable)	iiig/kg	0.00	MCENTS	12	2.2	0.86	0.63	1.1	1	1	0.88	1.1	0.62	0.87	0.73	U./6	0.4/	1.3	1.8	0.54	0.41	0.52	0.37	0.73	0.51	1.3	0.52
Boron (water soluble)	mg/kg	0.2	MCERTS	240000	21000	1.8	0.6	0.7	1.6	2.2	0.9	3	0.4	1.9	1.3	2.8	0.5	1.8	1.1	0.7	0.4	0.3	0.3	0.4	0.5	1.1	0.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	410	220	1.6	< 0.2	< 0.2	0.7	0.3	1.1	0.7	< 0.2	0.3	0.3	< 0.2	< 0.2	0.2	0.4	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.4
Chromium (hexavalent)	mg/kg	1.8	MCERTS	49	21	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	8600	1500	40	25	46	42	37	39	49	20	21	18	20	19	51	19	17	14	16	16	30	18	41	22
Copper (aqua regia extractable)	mg/kg	1	MCERTS	68000	12000	80	10	19	43	28	55	36	16	52	43	43	12	27	51	12	4	3.6	2.8	7	5.4	43	54
Iron (aqua regia extractable)	mg/kg	40	MCERTS			35000	15000	46000	41000	40000	30000	37000	24000	24000	19000	20000	25000	49000	32000	22000	27000	34000	24000	44000	23000	24000	33000
Lead (aqua regia extractable)	mg/kg	1	MCERTS	2300	630	120	14	13	54	56	110	33	38	430	240	210	17	18	770	29	4.8	5.9	4	7.6	5.4	70	220
Manganese (aqua regia extractable)	mg/kg	1	MCERTS			260	58	400	270	270	390	260	370	730	380	290	150	260	460	390	440	380	180	440	260	700	270
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	1100	120	0.8	< 0.3	< 0.3	< 0.3	< 0.3	0.6	< 0.3	0.5	1.6	1.5	1.2	< 0.3	< 0.3	0.9	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	0.6
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	17000		1	< 0.25	1	0.78	0.64	1	0.52	0.77	1.2	0.96	1	0.55	0.53	1.4	0.55	0.8	0.73	1.2	0.92	0.4	3.9	0.66
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	980	230	29	12	32	35	33	28	33	17	19	16	17	15	44	24	11	16	19	14	27	17	23	19
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	12000	1100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	9000	2000	52	26	79	66	65	52	69	36	42	36	38	36	85	42	33	27	46	29	61	30	45	60
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	730000	81000	250	40	76	100	92	140	97	47	92	82	74	39	81	91	35	19	25	17	35	22	110	100
Petroleum Hydrocarbons		-		-	-								-			-	-	-				-					
TPHCWG - Aliphatic >EC5 - EC6	ma/ka	0.01	MCERTS	3200	570000	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8	ma/ka	0.01	MCERTS	7800	600000	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10	ma/ka	0.01	MCERTS	2000	13000	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TRHCWG Aliphatic > EC10 - EC13	ma/ka	1	MCEDIC	9700	12000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TRUCING Aliphakia 5 C12 EC16	mg/kg	2	MCEDIC	50000	13000	< 1.0	< 2.0	< 2.0	< 1.0	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 1.0	- 1.0	1.0	< 1.0	< 1.0	< 2.0	~ 1.0	- 2.0
TRHOWG - Aliphatic >EC12 - EC10 EH_OU_ID_AL	ma/ka	8	MCERTS	1600000	250000	17	< 2.0	< 2.0	< 2.0	2.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	- 20	< 2.0
TPHCWG - Aliphatic > EC21 = EC21 EH_CU_1D_AL	mg/kg		MCEDTS	160000	250000	17	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0
TPHCWG - Aliphatic > EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	84	NONE	1600000	250000	4/	< 0.0	< 0.0	0.0	17	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	10	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	< 0.0	35	< 0.0
TPHCWG - Aliphatic > EC55 - EC44 EH_CU_1D_AL	mg/kg	10	NONE	1000000	230000	15	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	29	< 0.4
TPHCWG - Aliphatic >EC5 - EC35 EH_CU+HS_1D_AL	mg/kg	10	NONE			70	< 10	< 10	< 10	19	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	16	< 10	< 10	< 10	< 10	< 10	< 10	38	< 10
TETICWG * Alipitatic >EC3 * EC44 EH_CU+HS_1D_AL		10	HOHE			83	< 10	< 10	< 10	19	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	16	< 10	< 10	< 10	< 10	< 10	< 10	6/	< 10
TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	MCERTS	26000	3800	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
IPHCWG - Aromatic >EC7 - EC8 Hs_1D_AR	mg/kg	0.01	MCERTS	56000	56000	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
IPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.02	MCERTS	3500	5000	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	16000	5000	< 1.0	2.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.8	1.4
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	36000	5100	< 2.0	16	< 2.0	< 2.0	4.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	40	5.8
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	28000	3800	13	67	< 10	< 10	14	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	290	71
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	28000	3800	27	71	< 10	< 10	27	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	320	140
TPHCWG - Aromatic >EC35 - EC44 EH_CU_1D_AR	mg/kg	8.4	NONE	28000	3800	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	63	28
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE			39	160	< 10	< 10	46	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	650	220
TPHCWG - Aromatic >EC5 - EC44 EH_CU+HS_1D_AR	mg/kg	10	NONE			39	160	< 10	< 10	46	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	720	250

Lab Sample Number		310110	310111	310333	318551	318552	319201	319202	319204	319205	319206	319207	324860	324861	348504	348505	348506	348507	348508	322823	322824	381763	379636
Sample Reference		MT-019-35	MT-003	MT-003	MT-003	MT-003	MT-005	MT-005	MT-022-35	MT-022-35	MT-022-35	MT-022-35	MT-022-35	MT-004	MT-004	MT-028-35	MT-030-35						
Sample Number		None Supplied	ES	ES	ES	ES	ES	ES	None Supplied	ES	ES	None Supplied	None Supplied										
Depth (m)		9.00	11.50	13.70	2.00	5.00	0.30	1.20	0.50	3.70	7.70	11.70	0.30	1.20	0.30	1.20	4.00	7.00	10.00	7.50	9.50	0.3	0.30
Date Sampled		05/09/2024	05/09/2024	08/09/2024	04/09/2024	04/09/2024	03/09/2024	03/09/2024	12/09/2024	12/09/2024	13/09/2024	13/09/2024	19/09/2024	19/09/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	17/09/2024	17/09/2024	28/10/2024	06/11/2024
Time Taken		None Supplied																					
Analytical Parameter (Soil Analysis)	GAC Public Open Space Residential Comercial/Industria Industria Test Accreditation Test Limit of detection Units																						

VOCs																											
Chloromethane	µg/kg	5	MCERTS	1000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	µg/kg	5	MCERTS	960000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromomethane	µg/kg	5 I	SO 17025			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl Chloride	µg/kg	5	NONE	1100	7800	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	µg/kg	5	NONE	26000	300000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	NONE	22000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	790000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5 I	SO 17025	28000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	µg/kg	5 I	SO 17025			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane	µg/kg	5 I	SO 17025	660000	140000000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	µg/kg	5 I	SO 17025	12000	300000	< 5.0	< 5.0	< 5.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 5.0	< 5.0	< 7.0	< 7.0	< 7.0	< 7.0	< 7.0	< 5.0	< 5.0	< 7.0	< 7.0
1,1-Dichloropropene	µg/kg	5 I	SO 17025	3300		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,2-dichloroethene	µg/kg	5 I	SO 17025	14000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	27000	140000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	NONE	2900	890000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloropropane	µg/kg	5 I	SO 17025	3300		< 5.0	< 5.0	< 5.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 5.0	< 5.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 5.0	< 5.0	< 6.0	< 6.0
Trichloroethene	µg/kg	5 I	SO 17025	730	2500000	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10 ##	< 10 **	< 10 ##	< 10 ##	< 10 ##	< 10 ##	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0	< 5.0	< 10	< 10
Dibromomethane	µg/kg	5 I	SO 17025			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane	µg/kg	5 I	SO 17025			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,3-dichloropropene	µg/kg	5 I	SO 17025			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trans-1,3-dichloropropene	µg/kg	5 1	SO 17025			< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0	< 5.0	< 10	< 10
Toluene	µg/kg	5	MCERTS	56000	56000000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-I richloroethane	µg/kg	5 1	50 17025	94000		< 5.0	< 5.0	< 5.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 5.0	< 5.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 5.0	< 5.0	< 6.0	< 6.0
1,3-Dichloropropane	µg/kg	5 1	50 17025			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	µg/kg	5 1	30 17023	24000	2200000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1 2 Disconcethene	µg/kg	5	NUNE	24000	3200000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorohonzono	pg/kg	5 1	SO 17025	56000	11000000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1 1 1 2-Tetrachloroethane	ug/kg	5 1	SO 17025	110000	1400000	< 5.0	< 5.0	< 5.0	20	< 5.0	< 5.0	20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylhonzono	ua/ka	5	MCERTS	5700000	24000000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n & m-Yvlene	ua/ka	5	MCERTS	5900000	41000000	< 5.0	< 5.0	< 5.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 5.0	< 5.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 5.0	< 5.0	< 8.0	< 8.0
Styrene	ua/ka	5 I	SO 17025	3300000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromoform	µg/kg	5	NONE	760000		< 5.0	< 5.0	< 5.0	< 5.0 ##	< 5.0 ##	< 5.0 ##	< 5.0 ##	< 5.0 ##	< 5.0 ##	< 5.0 ##	< 5.0 ##	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	6600000	41000000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5 I	SO 17025	1400000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	270000	1400000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromobenzene	µg/kg	5	NONE	97000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene	µg/kg	5 I	SO 17025			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Chlorotoluene	µg/kg	5 I	SO 17025			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene	µg/kg	5 I	SO 17025			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5 I	SO 17025			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene	µg/kg	5 I	SO 17025			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5 I	SO 17025	42000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene	µg/kg	5 I	SO 17025			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	µg/kg	5 I	SO 17025	30000	300000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p-Isopropyltoluene	µg/kg	5 I	SO 17025			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	µg/kg	5 1	SU 17025	4400000	17000000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	µg/kg	5 I	SU 1/025	2000000	90000000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Butylbenzene	µg/кд	°	NUNE			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane	µg/kg	5 I	SU 1/025	220000	15000000	< 5.0	< 5.0	< 5.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 5.0	< 5.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 5.0	< 5.0	< 8.0	< 8.0
	µg/kg	5 1	NONE	220000	12000000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1.2.3-Trichlorobenzene	µg/kg	- 5 I	SO 17025	102000	1800000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1/2/3 111011010001120110	1	-				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 3.0	< 5.0	< 3.0	< 5.0	< 3.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Lab Sample Number		310110	310111	310333	318551	318552	319201	319202	319204	319205	319206	319207	324860	324861	348504	348505	348506	348507	348508	322823	322824	381763	379636
Sample Reference		MT-019-35	MT-003	MT-003	MT-003	MT-003	MT-005	MT-005	MT-022-35	MT-022-35	MT-022-35	MT-022-35	MT-022-35	MT-004	MT-004	MT-028-35	MT-030-35						
Sample Number		None Supplied	ES	ES	ES	ES	ES	ES	None Supplied	ES	ES	None Supplied	None Supplied										
Depth (m)		9.00	11.50	13.70	2.00	5.00	0.30	1.20	0.50	3.70	7.70	11.70	0.30	1.20	0.30	1.20	4.00	7.00	10.00	7.50	9.50	0.3	0.30
Date Sampled		05/09/2024	05/09/2024	08/09/2024	04/09/2024	04/09/2024	03/09/2024	03/09/2024	12/09/2024	12/09/2024	13/09/2024	13/09/2024	19/09/2024	19/09/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	17/09/2024	17/09/2024	28/10/2024	06/11/2024
Time Taken		None Supplied																					
Analytical Parameter (Soil Analysis)	GAC Public Open Space Residential GAC Comercial/Industrie Industrial Test Accredition Test Limit of detection Units																						

SVOCs																											
Aniline	mg/kg	0.1	NONE			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 1702	5		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	30	300	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	2000	90000	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	4400	17000	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS			< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	ISO 1702	5		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS			< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	NONE			< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	16000		< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS			< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	220	15000	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dichlorophenol	mg/kg	0.3	MCERTS			< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	NONE			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	NONE			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	_		< 0.1	0.7	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.4	0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	390		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS			< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	NONE	1900		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	mg/kg	0.2	NONE	3700		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	_		< 0.2	2.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	6.6	0.4
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	_		< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	_		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	NONE			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Azobenzene	mg/kg	0.3	NONE	4100	-	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS			< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	110	16	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
Carbazole	mg/kg	0.3	MCERTS	——	—	< 0.3	1.6	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	5.9	0.8
Dibutyl phthalate	mg/kg	0.2	NONE			0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	NONE	0.400000		< 0.3	0.7	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	7.4	1.5
Butyl benzyl phthalate	mg/kg	0.3	NONE	940000		< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected Exceedence of Commercial/Industrial GAC Exceedence of Public Open Space Residential GAC concentration is less than the detection limit

