

ENVIRONMENTAL IMPACT ASSESSMENT REPORT

VOLUME III APPENDICES

Appendix 10-1 Ground Investigation Report





Our Ref: JMS/Rp/P25019 + attachments (*.pdf)

15th October, 2025

Arup

50 Ringsend Road,
Dublin 4,
D04 T6X0
Ireland.

Re: Cleeves Riverside Quarter, Ground Investigation – Factual Report.

Introduction

In January 2025, Priority Geotechnical (PGL) were requested by Arup acting on behalf of the client, Limerick Twenty Thirty, to undertake a Ground Investigation (GI) as part of the Cleeves Riverside Quarter project.

The site for the proposed redevelopment consists of the land occupied by the former Cleeves Toffee factory buildings, the former Salesian Secondary School buildings, former industrial lands to the south of the Cleeves site and St. Michael's Rowing Club. The site is situated on the western bank of the River Shannon, west of Limerick City Centre. The main part of the site, located to the north of the North Circular Road, is known as the Flax Mill site, with the western side of the site named the Quarry Site. The former Salesian Secondary School site currently houses Beneficiaries of Temporary Protection (BOTP) in temporary accommodation, under the management of OFM (Operator of the BOTP accommodation).

The former factory grounds to the south of the North Circular Road are known as the Shipyard Site. This site includes a carpark and some derelict buildings. The site to the north of the Flax Mill Site is accessed via a gate to the south of the Lansdowne Hall apartments via Stonetown Terrace. This site is known as the Stonetown Terrace site.

The Cleaves Riverside Quarter will deliver a mix of uses, such as residential, commercial offices, educational and cultural/ visitor attractions, including ancillary uses of basement car parking and relocation of St Michael's Rowing Club. Several masterplan options are currently being considered. As such, this ground investigation was designed to inform the preparation of planning applications and any associated documents. It was not designed to inform detailed design for the proposed development. The ground investigation that is the subject of this specification was the initial intrusive geotechnical and geo-environmental investigation of the site.

Scope

The original scope of the ground investigation, which was specified by Arup, comprised of:

- 16Nr. Cable Percussive Boreholes with standard penetration tests (SPTs), to a depth of 5 metres Below Ground Level (m BGL)
- Rotary Core follow-on boreholes into bedrock to depths of 10 m BGL
- 23Nr. Trial Pits to depths of 4.5 m BGL or practical refusal
- 11Nr. Groundwater monitoring installations, of which: four will be located within bedrock and seven located within the overburden
- 01Nr. surface water installation within the reservoir location
- 06Nr. Slit Trenches with sampling and photographs to depths of 2.0 m BGL or refusal whichever occurs first to detect the existing services
- 03Nr. Foundation Inspection Pits to record the foundations of the adjacent buildings
- 03Nr. Soakaway Pits to a depth of 1.5 m BGL with associated soakaway testing as per Special Digest 365
- Installation of groundwater level monitoring dataloggers in the bedrock installations (4 wells)
- Installation of a groundwater level monitoring datalogger in the surface water installation within the reservoir
- Downhole colour (or optical if deemed necessary) televiwer survey within selected boreholes to record spacing, dip, and azimuth of discontinuities
- Geotechnical sampling and laboratory testing
- Geo-environmental sampling and testing

- Groundwater sampling and testing (for all the installations)
- Surface water sampling and testing; and
- Factual reporting,

The quantities of works was changed during the period of works. The final site works as completed is outlined, herein. This geotechnical data report presents the fieldworks records with regard to the Ground Investigation for the Cleeves Riverside Quarter. The report should be read in conjunction with the accompanying exploratory records, the photographic records and the laboratory test data.

Site Works

This investigation was carried out in accordance with Eurocode 7- Geotechnical Design Part 2, ground investigation and testing (BS EN 1997-2: 2007) and the relevant British Standards (BS 5930 (2015) Code of Practice for Site Investigation and BS 1377, Method of Tests for Soil for Civil Engineering Purposes, *in situ* Tests Parts 1 to 9).

The direct intrusive fieldworks were undertaken from the 27th February, 2025 to the 02nd May, 2025 under the supervision of PGL, Engineering Geologist(s). Details of the plant and equipment used are detailed on the relevant exploratory records, accompanying this report.

Robertson Geo services carried out a series of televiwer surveys on four number boreholes on behalf of PGL. The non-intrusive works were undertaken on the 7th and 8th April 2025. The findings are accompanying this factual report.

Cable Percussion Boreholes

Fourteen (14) cable percussion boreholes were drilled to depths 0.60m below existing ground level (bgl) to 4.10m bgl using PGL's Dando 2000 Rig and 200mm diameter casing. The exploratory logs are accompanying this factual report.

Location	Final Depth (m bgl)
BH301	2.60
BH303	0.60
BH304	2.90
BH305	2.00

Location	Final Depth (m bgl)
BH306	2.50
BH307	2.30
BH308	1.90
BH309	4.00
BH310	2.30
BH311	4.10
BH312	2.20
BH314	3.60
BH315	3.50
BH316	3.40

Chiselling Records				
Location	Depth Top (m bgl)	Depth Base (m bgl)	Duration (hh:mm)	Tool
BH301	2.20	2.60	01:00	Chisel.
BH304	2.20	2.80	01:00	Chisel.
BH305	1.70	2.00	01:00	Chisel.
BH306	2.30	2.50	01:00	Chisel.
BH307	2.10	2.30	01:00	Chisel.
BH308	1.30	1.50	00:30	Chisel.
	1.80	1.90	01:00	Chisel.
BH309	2.20	2.60	01:00	Chisel.
	3.80	4.00	01:00	Chisel.
BH310	2.10	2.30	01:00	Chisel.
BH311	3.80	4.10	01:00	Chisel.
BH312	2.00	2.20	01:00	Chisel.
BH314	1.00	1.40	01:00	Chisel.
	3.40	3.60	01:00	Chisel.
BH315	3.20	3.50	01:00	Chisel.
BH316	3.50	3.90	01:00	Chisel.

Rotary Boreholes

Fifteen (15) rotary boreholes were advanced to 8.00m bgl to 19.30m bgl using PGL's Soilmech PSM Rig and 131mm diameter casing. The exploratory logs are accompanying this factual report.

Location	Final Depth (m bgl)
BH301	10.20
BH302	10.40
BH303	10.20
BH304	10.00
BH305	19.30
BH306	8.00
BH307	10.00
BH308	10.30
BH309	9.00
BH310	8.00
BH311	10.80
BH312	9.70
BH314	10.40
BH315	10.00
BH316	8.60

Trial Pits

Twenty four (24) trial pits were excavated to depths 0.50m bgl to 2.90m bgl using a 12t tracked excavator. The exploratory logs and photographic records accompany this factual report.

Location	Final Depth (m bgl)	Groundwater (m bgl)
TP301	1.20	None encountered.
TP302	0.55	None encountered.
TP303	2.60	None encountered.
TP304	2.20	None encountered.
TP305	1.90	None encountered.
TP306	2.25	None encountered.
TP307	2.20	None encountered.
TP308	2.25	None encountered.
TP309	2.10	None encountered.
TP310	1.40	None encountered.
TP311	2.60	None encountered.

Location	Final Depth (m bgl)	Groundwater (m bgl)
TP312	2.20	None encountered.
TP313	1.80	None encountered.
TP314	2.00	None encountered.
TP315	2.40	None encountered.
TP316	1.60	None encountered.
TP317	2.90	Seepage flow rate.
TP318	0.70	None encountered.
TP319	2.20	None encountered.
TP320	2.40	None encountered.
TP321	2.40	Seepage flow rate.
TP322	2.50	None encountered.
TP323	2.00	None encountered.
TPBH302	0.50	None encountered.

Slit trenches

Six (06) slit trenches were excavated to depths 1.20m bgl using a 3t tracked excavator.

The exploratory logs and photographic records accompany this factual report.

Location	Final Depth (m bgl)	Date Start (dd/mm/yyyy)
ST301	1.30	24/03/2025
ST302	1.20	21/03/2025
ST303	1.20	20/03/2025
ST304	1.20	20/03/2025
ST305	1.20	19/03/2025
ST306	1.20	19/03/2025

Foundation Pits

Seven (07) foundation inspection pits were excavated to depths 0.60m bgl to 2.40m bgl using a 3t tracked excavator. The exploratory logs and photographic records accompany this factual report.

Location	Final Depth (m bgl)	Date Start (dd/mm/yyyy)
FIP301	1.20	20/03/2025
FIP302	1.20	21/03/2025
FIP303	2.40	21/03/2025
FIP304	1.20	25/03/2025
FIP305	1.00	25/03/2025
FIP306	0.60	25/03/2025
FIP307	0.80	25/03/2025

Sampling

A total of one hundred and thirteen (113) bulk disturbed samples (B), fifty three (53) small disturbed samples (D), one hundred and one (101) environmental samples (ES) and 96.3lin.m of core were recovered from the exploratory holes in accordance with Geotechnical Investigation and Sampling – Sampling Methods and Groundwater Measurements (EN ISO 22475-1:2006).

In-Situ Testing

Standard Penetration Tests (SPT)

A total of seventy four (74) standard penetration tests, were carried out in the cable percussion and rotary boreholes using the 60° solid cone (CPT) in place of the standard split barrel sampler. The data was presented on the relevant logs accompanying this factual report.

Soakaways

Four (04) soakaway tests were carried out for a single drainage cycle in general accordance with BRE Digest 365, Soakaway Design (2003/ 2007). The results are presented in **APPENDIX A** of this factual report.

Survey and Drawings

The 'as built' exploration locations were surveyed to the Ordinance Survey Irish Transverse Mercator system of co-ordinates (ITM) and elevations to Malin Head datum and shown on the relevant exploratory logs and the Exploratory Location Plans (P25019-SI-A, P25019-SI-01) accompanying this report.

Location	Easting	Northing	Ground Level (m bgl)	Final Depth (m bgl)
BH301	556778.91	657227.95	10.15	10.20
BH302	556832.60	657273.90	12.64	10.40
BH303	556831.21	657246.25	12.56	10.20
BH304	556866.10	657264.20	4.06	10.00
BH305	556956.60	657278.20	13.42	19.30
BH306	556977.00	657279.40	13.82	8.00
BH307	557001.10	657262.20	12.44	10.00
BH308	556999.30	657243.20	11.66	10.30
BH309	556868.15	657120.08	4.10	9.00
BH310	556921.30	657138.00	4.33	8.00
BH311	556969.24	657068.11	3.63	10.80

Location	Easting	Northing	Ground Level (m bgl)	Final Depth (m bgl)
BH312	557006.21	657091.70	4.16	9.70
BH314	556943.90	657222.50	5.23	10.40
BH315	557013.10	657122.30	5.74	10.00
BH316	557049.80	657130.90	5.33	8.60
FIP301	556950.20	657158.90	5.80	1.20
FIP302	556981.70	657157.40	5.91	1.20
FIP303	557015.80	657165.20	6.01	2.40
FIP304	556970.60	657144.00	5.34	1.20
FIP305	556981.80	657132.20	5.44	1.00
FIP306	557038.10	657104.00	5.41	0.60
FIP307	557043.90	657108.40	5.24	0.80
ST301	556817.50	657189.60	6.09	1.30
ST302	556873.20	657178.20	5.15	1.20
ST303	556907.60	657151.40	4.60	1.20
ST304	556925.00	657150.90	4.51	1.20
ST305	556994.10	657103.50	4.12	1.20
ST306	557014.40	657102.50	4.05	1.20
TP301	556773.40	657289.00	12.97	1.20
TP302	556823.20	657268.60	12.61	0.55
TP303	556870.40	657256.40	4.29	2.60
TP304	556789.70	657237.40	11.28	2.20
TP305	556804.10	657211.30	11.05	1.90
TP306	556967.00	657288.80	13.93	2.25
TP307	556967.00	657278.50	13.56	2.20
TP308	556963.50	657269.50	13.27	2.25
TP309	556977.80	657259.20	12.83	2.10
TP310	556988.20	657240.60	10.32	1.40
TP311	557000.70	657275.90	12.43	2.60
TP312	556995.40	657262.00	12.66	2.20
TP313	556992.50	657246.50	12.00	1.80
TP314	557007.00	657253.00	11.87	2.00
TP315	556950.90	657216.40	5.55	2.40
TP316	556887.30	657156.00	4.53	1.60
TP317	556908.40	657104.30	3.90	2.90
TP318	556933.10	657121.30	4.26	0.70
TP319	556999.60	657131.40	5.71	2.20
TP320	556986.87	657098.29	4.21	2.40
TP321	556987.55	657061.04	3.87	2.40
TP322	557031.10	657139.00	5.62	2.50
TP323	557049.70	657095.60	5.00	2.00

Location	Easting	Northing	Ground Level (m bgl)	Final Depth (m bgl)
TPBH302	556832.60	657273.90	12.64	0.50

Laboratory Testing

Laboratory testing was scheduled by Arup and carried out by PGL in accordance with BS1377 (1990), Methods of test for soils for civil engineering purposes. Chemical testing was carried out by Eurofins-Chemtest Ltd. (UK) on behalf of PGL. The results are accompanying this factual report.

Please note that all samples shall be retained for a period no longer than 28 days from the date of this report. Thereafter all remaining samples shall be appropriately disposed of unless a written instruction to the contrary is received by PGL prior to the date of this reporting and within the 28 day period outlined above. Laboratory testing will result in a reduction of sample quantity and in some cases the use of the full sample mass. Samples already tested may not be suitable or available for further testing.

Published Geology

A search of the Geological Survey data base and 1:100,000 mapping (Sheet 17) identified Visean Limestones defining the area. The unit is described as undifferentiated Limestone and underlies the full study area. Outcropping bedrock is mapped within the formations to the north of the study area. Teagasc subsoil mapping indicates that the area is underlain by Made Ground deposits. The National Groundwater Vulnerability mapping indicates the area moderate to extreme vulnerability. The extreme rating is indicative of bedrock at or near the surface.

Ground and Groundwater Conditions

The full details of the ground conditions encountered are provided for on the exploratory records accompanying this report. The records provide descriptions, in accordance with BS 5930 (2015) and Eurocode 7, Geotechnical Investigation and Testing, Identification and classification of soils, Part 1, Identification and description (EN ISO 14688-1: 2002),– Identification and Classification of Soil, Part 2: Classification Principles (EN ISO 14688-2:2004) and Identification and Classification of Rock, Part 1: Identification & Description (EN ISO 14689-1:2004) of the materials encountered, *in situ* testing and details of the samples taken, together with any observations made during the ground investigation.

Groundwater levels may be subject to diurnal, seasonal and climatic variations and can also be affected by drainage conditions, tidal variations etc. Low volume groundwater flow may be cut-off by borehole casing as it progresses in stiff glacial deposits. The duration a borehole or trial pit excavation remains open may not be sufficient to allow for low volume flow to present. The groundwater regime should be assessed from standpipe well installations, where available.

Groundwater was encountered during the period of works at depths 2.10m bgl to 11.50m bgl.

SUMMARY OF GROUNDWATER

Location	Depth Strike (m bgl)	Remarks	Standpipe (Y/N)
BH301	5.80	See shift data.	Y
BH302	-	See shift data.	Y
BH303	8.00	See shift data.	N
BH304	2.10	See shift data.	N
	2.40		
BH305	11.50	See shift data.	Y
BH306	7.00	See shift data.	Y
BH307	7.40	See shift data.	Y
BH308	9.00	See shift data.	Y
BH309	7.50	See shift data.	Y
BH310	5.40	See shift data.	Y
BH311	3.80	See shift data.	Y
	4.70		
BH312	4.70	See shift data.	Y
BH314	5.50	See shift data.	Y
BH315	6.80	See shift data.	N
BH316	3.40	See shift data.	N
FIP301	-	None encountered.	N
FIP302	-	None encountered.	N
FIP303	-	None encountered.	N
FIP304	-	None encountered.	N
FIP305	-	None encountered.	N
FIP306	-	None encountered.	N
FIP307	-	None encountered.	N
ST301	-	None encountered.	N
ST302	-	None encountered.	N

Location	Depth Strike (m bgl)	Remarks	Standpipe (Y/N)
ST303	-	None encountered.	N
ST304	-	None encountered.	N
ST305	-	None encountered.	N
ST306	-	None encountered.	N
TP301	-	None encountered.	N
TP302	-	None encountered.	N
TP303	-	None encountered.	N
TP304	-	None encountered.	N
TP305	-	None encountered.	N
TP306	-	None encountered.	N
TP307	-	None encountered.	N
TP308	-	None encountered.	N
TP309	-	None encountered.	N
TP310	-	None encountered.	N
TP311	-	None encountered.	N
TP312	-	None encountered.	N
TP313	-	None encountered.	N
TP314	-	None encountered.	N
TP315	-	None encountered.	N
TP316	-	None encountered.	N
TP317	2.90	Seepage flow rate.	N
TP318	-	None encountered.	N
TP319	-	None encountered.	N
TP320	-	None encountered.	N
TP321	2.40	Seepage flow rate.	N
TP322	-	None encountered.	N
TP323	-	None encountered.	N
TPBH302	-	None encountered.	N

Eleven (11) 50mm dia. HPDE standpipes were constructed to allow for groundwater monitoring. The details are summarised hereafter.

SUMMARY OF STANDPIPE CONSTRUCTION

Location	Depth Top (m bgl)	Depth Base (m bgl)	Diameter (mm)	Pipe Type
BH301	0.00	1.50	50	PLAIN
	1.50	3.50	50	SLOTTED
BH302	0.00	7.50	50	PLAIN
	7.50	9.50	50	SLOTTED
BH305	0.00	1.00	50	PLAIN
	1.00	3.00	50	SLOTTED
BH306	0.00	3.00	50	PLAIN
	3.00	5.00	50	SLOTTED
BH307	0.00	3.50	50	PLAIN
	3.50	5.50	50	SLOTTED
BH308	0.00	5.50	50	PLAIN
	5.50	7.50	50	SLOTTED
BH309	0.00	1.00	50	PLAIN
	1.00	3.00	50	SLOTTED
BH310	0.00	1.50	50	PLAIN
	1.50	3.50	50	SLOTTED
BH311	0.00	8.50	50	PLAIN
	8.50	10.50	50	SLOTTED
BH312	0.00	1.50	50	PLAIN
	1.50	3.50	50	SLOTTED
BH314	0.00	6.00	50	PLAIN
	6.00	8.00	50	SLOTTED

Groundwater levels were taken from boreholes on a series of return site visits. The readings are presented below.

SUMMARY OF GROUNDWATER LEVELS

Location	Groundwater Depth (m bgl)		
	02/05/2025	08/05/2025	20/05/2025
BH301	Dry	-	Dry
BH302	5.08	-	5.10
BH305	Dry	-	Dry
BH306	Dry	-	4.65
BH307	3.2	3.22	5.27
BH308	-	7.29	7.39

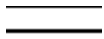
Location	Groundwater Depth (m bgl)		
	02/05/2025	08/05/2025	20/05/2025
BH309	2.75	-	2.90
BH310	3.05	-	3.27
BH311	2.18	-	3.28
BH312	2.85	-	3.05
BH314	3.66	-	3.99

Exploratory locations were backfilled with their arisings, gravel and bentonite. Backfill details are displayed graphically on the accompanying logs and summarised below.

SUMMARY OF BACKFILL



GRAVEL Backfill to installation/ borehole



uPVC slotted pipe



ARISINGS Backfill



BENTONITE Backfill to installation/
borehole

Should you have any queries in relation to the data collected and presented herein, please do not hesitate to contact our office.

Yours sincerely,
For **Priority Geotechnical**,

James McSweeney BSc
Engineering Geologist

No responsibility can be held by PGL for ground conditions between exploratory locations. The exploratory logs provide for ground profiles and configuration of strata relevant to the investigation depths achieved during the fieldworks. Caution shall be taken when extrapolating between such exploratory locations. No liability is accepted for ground conditions extraneous to the exploratory locations.

No account has been taken of potential subsidence or ground movement due to mineral extraction, mining works or karstification below or in proximity to the site, unless specifically addressed.

This report has been prepared for Employer and their Representative as outline, herein. The information should not be used without their prior written permission. PGL accepts no responsibility or liability for this document being used other than for the purposes for which it was intended.



Priority Geotechnical Site



JOB NAME:

Cleeves Riverside Quarter,
Limerick.

Sheet Title:

Exploratory Location Layout

JOB NUMBER:

P25019

DRAWING NUMBER:

P25019-SI-A

DRAWN BY:

G.C.

DATE:

02/05/2025

SCALE:

1:2000 ON A3

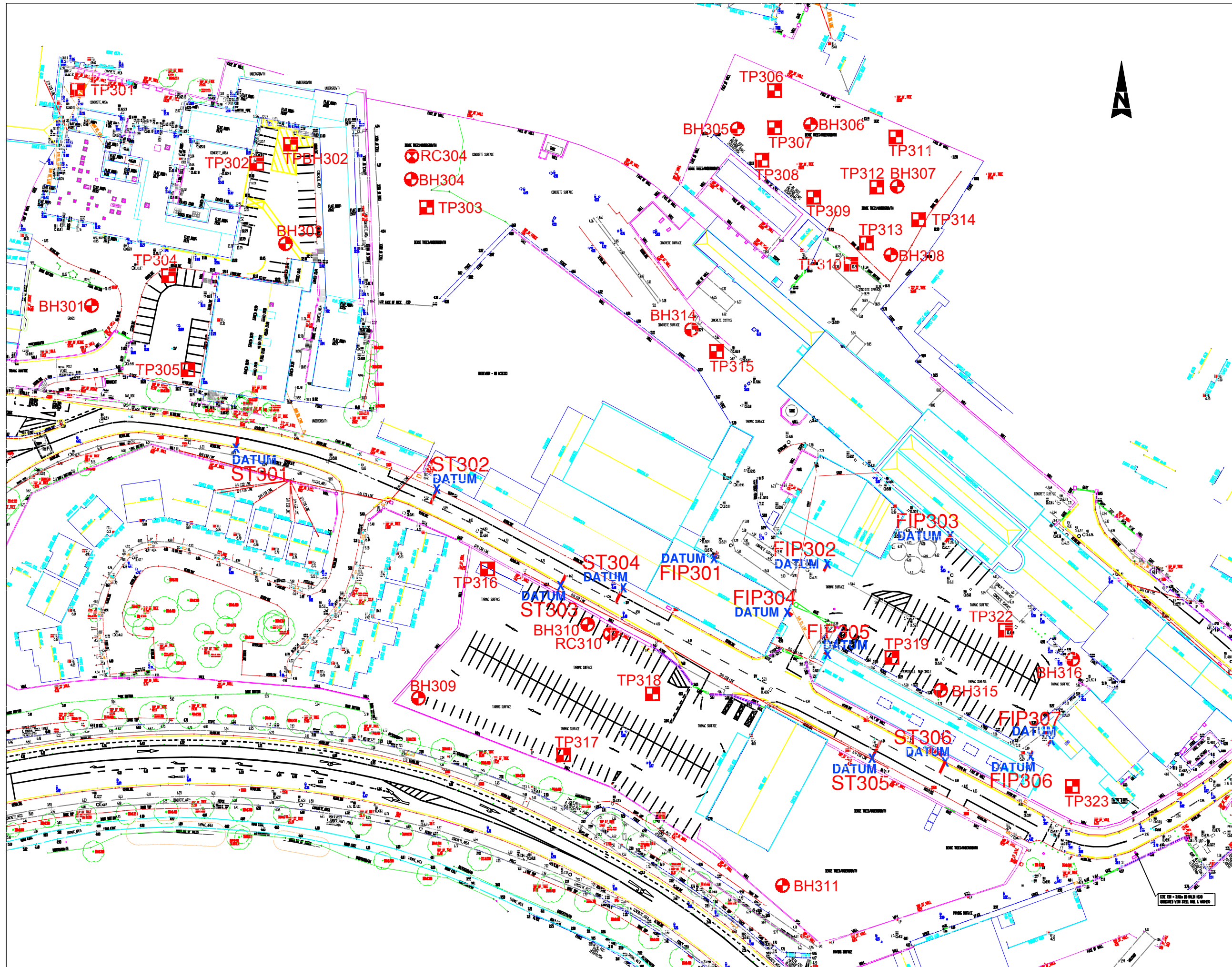
APPROVED:

GH

REVISION:

D01





KEY:

- ST00 DATUM X Denotes Slit Trench and Datum location
- TP00 Denotes Trial Pit location
- BH00 Denotes Borehole location
- RC00 Denotes Rotary Core location

JOB NAME:

Cleeves Riverside Quarter,
Limerick.

Sheet Title:

Exploratory Location Layout

JOB NUMBER:

P25019

DRAWING NUMBER:

P25019-SI-01

DRAWN BY:

G.C.

DATE:

04/04/2025

SCALE:

1:1000 ON A3

APPROVED:

GH

REVISION:

D01



KEY TO SYMBOLS ON EXPLORATORY HOLE RECORDS

GENERAL

m	Meter
mm	Millimetres
BGL	Below existing ground level
mOD	Level to OD Malin
TP	Trial Pit
ST	Slit Trench
CP	Cable Percussion Borehole
RC	Rotary Cored Borehole
IP	Inspection Pit
FP	Foundation Pit
DP	Dynamic Probe
Geobore S	Geobore S Borehole

SAMPLES

B	Bulk disturbed sample
D	Small disturbed sample
U	Undisturbed sample
WS	Dynamic sample/ window sample
ENV	Environmental sample
SPLTLS	Split spoon sample
CBR	California Bearing Ratio mould sample

RECOVERY AND ROCK QUALITY

TCR %	Total Core Recovery (% of Core Run)
SCR %	Solid Core Recovery (length of core having at least one full diameter as % of core run) RQD
RQD %	Rock Quality Designation (length of solid core greater than 100mm as % of core run)
FI	Fracture Index (Measured over length of core run)
NI	Non intact
AVG	Average distance between fractures
MAX	Maximum distance between fractures
MIN	Minimum distance between fractures

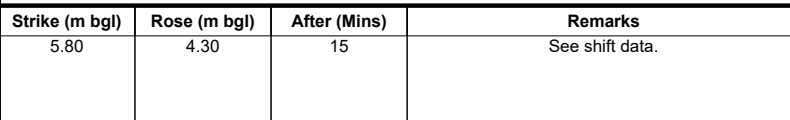
GROUNDWATER

Strike	
Level after standing	

IN-SITU TESTING

N	Standard Penetration Test - Blows required to drive 300mm after seating drive
C	Standard Penetration Test - 60Cone
S	Standard Penetration Test – Split Spoon

pgl priority geotechnical Priority Geotechnical Ltd. Tel: 021 4631600 www.prioritygeotechnical.ie										Drilled By AJ & JM Logged By SR		Location BH301 Sheet 1 of 2																																																																																																																																																																																																																											
Project Name Cleeves Riverside Quarter Development - Ground Investigation				Project No. P25019		Co-ords 556779E - 657228N				Hole Type CP+RC																																																																																																																																																																																																																													
Location Limerick City						Level 10.15 m OD				Scale 1:50																																																																																																																																																																																																																													
Client Limerick Twenty Thirty (LTT)						Date 24/03/2025 - 02/04/2025																																																																																																																																																																																																																																	
<table><tr><th rowspan="2">Backfill</th><th rowspan="2">Water Strike (m bgl)</th><th colspan="3">Sampling and In-Situ Testing</th><th colspan="3">Coring %</th><th rowspan="2">FI</th><th rowspan="2">Spacing (mm)</th><th rowspan="2">Depth (m bgl)</th><th rowspan="2">Level (mOD)</th><th rowspan="2">Legend</th><th rowspan="2">Stratum Description</th><th rowspan="2"></th></tr><tr><th>Depth (m bgl)</th><th>Type</th><th>Results</th><th>TCR</th><th>SCR</th><th>RQD</th></tr><tr><td rowspan="10"> </td><td></td><td>0.50 0.50 - 1.00</td><td>ES B</td><td rowspan="3">N=12 (3,6/2,4,2,4)</td><td></td><td></td><td></td><td></td><td></td><td>0.30</td><td>9.85</td><td> </td><td>(TOPSOIL)</td><td rowspan="3">1</td></tr><tr><td></td><td>1.00 - 1.50 1.00</td><td>B SPT(C)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td> </td><td>(MADE GROUND) Mottled brown, grey and black, very gravelly very clayey SAND with organic material (plant matter). Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.</td></tr><tr><td></td><td>1.50 1.50 - 2.00</td><td>ES B</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>2.00 - 2.60 2.00</td><td>B SPT(C)</td><td>30 (25,29/30 for 30mm)</td><td></td><td></td><td></td><td></td><td></td><td>1.50</td><td>8.65</td><td> </td><td>Medium dense, greyish brown, clayey very sandy GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-rounded. Cobbles are sub-rounded, Limestone lithology and 63-110mm in diameter.</td><td>2</td></tr><tr><td></td><td>2.60</td><td>SPT(C)</td><td>50 (30 for 0mm/50 for 0mm)</td><td></td><td></td><td></td><td></td><td></td><td>2.60</td><td>7.55</td><td> </td><td>Open hole drilling. Driller described: Dense, gravelly BOULDERS.</td><td>3</td></tr><tr><td></td><td>4.00 4.20 - 4.50</td><td rowspan="3">SPT(C)</td><td rowspan="3">50 (25 for 75mm/50 for 0mm)</td><td></td><td></td><td></td><td></td><td></td><td>4.20</td><td>5.95</td><td> </td><td>Lithology: Strong, grey, LIMESTONE.</td><td rowspan="3">4</td></tr><tr><td></td><td>4.50 - 4.90</td><td>100</td><td>30</td><td>0</td><td>12</td><td>0mm min 90mm max 50mm avg</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>4.90 - 5.50</td><td>100</td><td>20</td><td>0</td><td>>20</td><td>0mm min 80mm max 30mm avg</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>5.50 - 6.50</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td> </td><td>Weathering: Moderately weathered between with 4.20m to 5.50m bgl. Reduced fracture spacing. Clay accretion present on fracture surfaces. Slightly weathered between 5.5m to 10.2m bgl.</td><td>5</td></tr><tr><td></td><td>6.50 - 8.00</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td> </td><td>Fractures: 2 sets observed. Set 1 is dipping 90 degrees with planar/ undulating, rough fracture surfaces and moderate to close spacing. Set 2 is dipping 45 degrees with undulating, rough fracture surfaces and wide spacing.</td><td>6</td></tr><tr><td></td><td>8.00 - 9.60</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td> </td><td></td><td>7</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td> </td><td></td><td>8</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td> </td><td></td><td>9</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>TCR</td><td>SCR</td><td>RQD</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>														Backfill	Water Strike (m bgl)	Sampling and In-Situ Testing			Coring %			FI	Spacing (mm)	Depth (m bgl)	Level (mOD)	Legend	Stratum Description		Depth (m bgl)	Type	Results	TCR	SCR	RQD			0.50 0.50 - 1.00	ES B	N=12 (3,6/2,4,2,4)						0.30	9.85		(TOPSOIL)	1		1.00 - 1.50 1.00	B SPT(C)										(MADE GROUND) Mottled brown, grey and black, very gravelly very clayey SAND with organic material (plant matter). Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.		1.50 1.50 - 2.00	ES B												2.00 - 2.60 2.00	B SPT(C)	30 (25,29/30 for 30mm)						1.50	8.65		Medium dense, greyish brown, clayey very sandy GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-rounded. Cobbles are sub-rounded, Limestone lithology and 63-110mm in diameter.	2		2.60	SPT(C)	50 (30 for 0mm/50 for 0mm)						2.60	7.55		Open hole drilling. Driller described: Dense, gravelly BOULDERS.	3		4.00 4.20 - 4.50	SPT(C)	50 (25 for 75mm/50 for 0mm)						4.20	5.95		Lithology: Strong, grey, LIMESTONE.	4		4.50 - 4.90	100	30	0	12	0mm min 90mm max 50mm avg							4.90 - 5.50	100	20	0	>20	0mm min 80mm max 30mm avg							5.50 - 6.50												Weathering: Moderately weathered between with 4.20m to 5.50m bgl. Reduced fracture spacing. Clay accretion present on fracture surfaces. Slightly weathered between 5.5m to 10.2m bgl.	5		6.50 - 8.00												Fractures: 2 sets observed. Set 1 is dipping 90 degrees with planar/ undulating, rough fracture surfaces and moderate to close spacing. Set 2 is dipping 45 degrees with undulating, rough fracture surfaces and wide spacing.	6		8.00 - 9.60													7															8															9						TCR	SCR	RQD							
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4.20	131																																																																																																																																																																																																																																						
Remarks Inspection pit dug prior to drilling. Cable percussion borehole terminated at 2.60m bgl, refusal. Rotary borehole terminated at 10.20m bgl. Reached required depth. 50mm dia. standpipe installed. Response zone from 1.50m - 3.50m bgl.				Groundwater Details <table><tr><th>Strike (m bgl)</th><th>Rose (m bgl)</th><th>After (Mins)</th><th>Remarks</th></tr><tr><td>5.80</td><td>4.30</td><td>15</td><td>See shift data.</td></tr></table>				Strike (m bgl)	Rose (m bgl)	After (Mins)	Remarks	5.80	4.30	15	See shift data.																																																																																																																																																																																																																								
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Photographic Record



Number:

BH301

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

Photographic Record

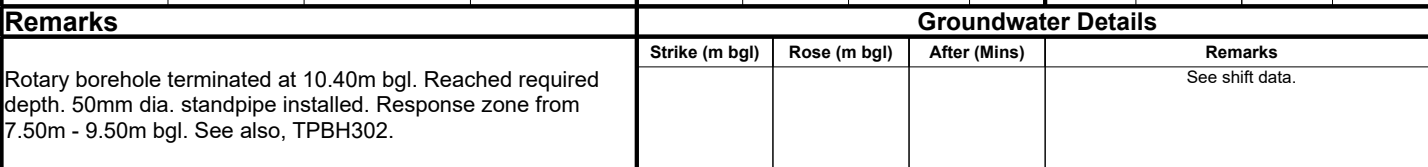


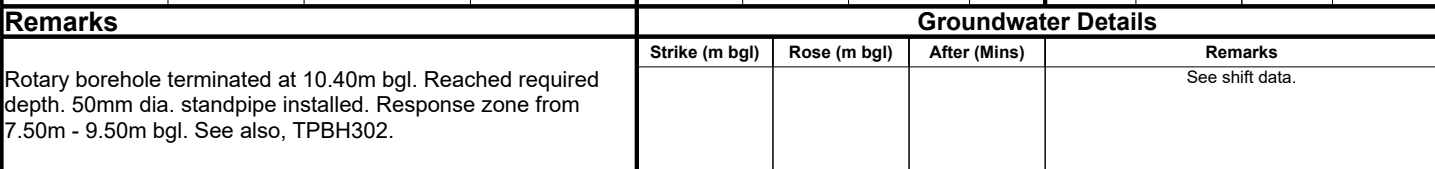
Number:

BH301

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP





Photographic Record



Number:

BH302

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

Photographic Record



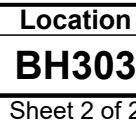
Number:

BH302

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

Drilled By	Location
AJ & JM	BH303
Logged By	
SR	Sheet 1 of 2
57246N	Hole Type
	CP+RC
m OD	Scale
	1:50
- 01/04/2025	



Hole Type
CP+RC

Scale
1:50

Date 25/03/2025 - 01/04/2025

Shift Data				Chiselling Details				Plant	Dando 2000 & Soilmec PSM			
Date & Time	Depth (m bgl)	Water (m bgl)	Remarks	Top (m bgl)	Base (m bgl)	Duration (hh:mm)	Tool	Method	Compressed air mist			
25/03/2025 08:00	0.00	Dry	Start of shift.					Hole Details		Casing Details		
25/03/2025 18:00	0.60								Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)
01/04/2025 08:00	0.00								0.60	200	0.60	200
01/04/2025 18:00	10.20		Start of shift.						2.20	131	2.20	131
			End of borehole.						10.20	76		

Groundwater Details

Strike (m bgl)	Rose (m bgl)	After (Mins)	Remarks
8.00	7.70	15	See shift data.

Photographic Record



Number:

BH303

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

Photographic Record



Number:

BH303

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

Backfill	Water Strike (m bgl)	Sampling and In-Situ Testing			Coring %			FI	Spacing (mm)	Depth (m bgl)	Level (mOD)	Legend	Stratum Description		
		Depth (m bgl)	Type	Results	TCR	SCR	RQD								
 										0.20	3.86		(MADE GROUND) GRAVEL.		
		0.50 0.50 0.50 - 1.00	ES ES B											(MADE GROUND) Black, silty very sandy GRAVEL Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular.	
		1.00 - 1.50 1.00	B SPT(C)	N=7 (2,1/2,2,1,2)						1.00	3.06		(MADE GROUND) Soft, greyish black, slightly sandy gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-rounded. Cobbles are sub-angular to sub-rounded, Limestone lithology and 63-160mm in diameter.	1	
		1.50 1.50 - 2.00	ES B							1.50	2.56		(MADE GROUND) Black, clayey very sandy GRAVEL with high cobble content. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-rounded.	2	
		2.00 - 2.80 2.00	B SPT(C)	50 (25 for 50mm/50 for 50mm)						2.00	2.06		(MADE GROUND) Brownish black, clayey sandy GRAVEL with timber and tile fragments. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-rounded.	3	
		2.40 - 4.00 2.50	ES							2.40	1.66		Lithology: Strong, grey, fossiliferous LImeSTONE.	4	
		2.80	SPT(C)	50 (25 for 30mm/50 for 50mm)	100	100	83	9	40mm min 690mm max 200mm avg				Weathering: Slightly weathered. Slight oxidation discolouration on fracture surfaces.	5	
		4.00 - 5.60						7	0mm min 550mm max 140mm avg				Fracture Sets; 2 sets observed. Set 1 is dipping 90 degrees with planar/undulating, rough fracture surfaces and moderate spacing. Set 2 is dipping 10 degrees with undulating, rough fracture surfaces and wide spacing.	6	
		5.60 - 7.10						10	0mm min 330mm max 150mm avg					7	
		7.10 - 8.50						8	0mm min 410mm max 170mm avg					8	
	8.50 - 10.00												9		
					TCR	SCR	RQD								

Shift Data				Chiselling Details				Plant	Dando 2000 & Soilmec PSM			
Date & Time	Depth (m bgl)	Water (m bgl)	Remarks	Top (m bgl)	Base (m bgl)	Duration (hh:mm)	Tool	Method	Compressed air misting			
18/03/2025 08:00	0.00	Dry	Start of shift.	2.20	2.80	01:00	Chisel.	Hole Details		Casing Details		
18/03/2025 18:00	2.90		End of shift.					Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)	
03/04/2025 08:00	0.00		Start of shift.					2.40	131	2.40	131	
03/04/2025 18:00	10.00		End of borehole.					2.90	200	2.90	200	
								10.00	76			
Remarks				Groundwater Details								
Inspection pit dug prior to drilling. Cable percussion borehole terminated at 2.90m bgl, refusal. Rotary hole terminated at 10.00m bgl.				Strike (m bgl)	Rose (m bgl)	After (Mins)	Remarks					
				2.10	2.0	10	See shift data.					
				2.40	2.0	20						

pgl priority geotechnical Priority Geotechnical Ltd. Tel: 021 4631600 www.prioritygeotechnical.ie										Drilled By AJ & JM		Location BH304																																																																																																																																																																												
										Logged By SR		Sheet 2 of 2																																																																																																																																																																												
Project Name Cleeves Riverside Quarter Development - Ground Investigation					Project No. P25019		Co-ords 556866E - 657264N					Hole Type CP+RC																																																																																																																																																																												
Location Limerick City					Level 4.06 m OD					Scale 1:50																																																																																																																																																																														
Client Limerick Twenty Thirty (LTT)					Date 18/03/2025 - 18/03/2025																																																																																																																																																																																			
<table><tr><td rowspan="2">Backfill</td><td rowspan="2">Water Strike (m bgl)</td><td colspan="3">Sampling and In-Situ Testing</td><td colspan="3">Coring %</td><td rowspan="2">FI</td><td rowspan="2">Spacing (mm)</td><td rowspan="2">Depth (m bgl)</td><td rowspan="2">Level (mOD)</td><td rowspan="2">Legend</td><td rowspan="2">Stratum Description</td><td rowspan="2"></td></tr><tr><td>Depth (m bgl)</td><td>Type</td><td>Results</td><td>TCR</td><td>SCR</td><td>RQD</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>100</td><td>100</td><td>96</td><td>9</td><td>60mm min 390mm max 100mm avg</td><td>10.00</td><td>-5.94</td><td></td><td>Lithology: Strong, grey, fossiliferous LimeSTONE. Weathering: Slightly weathered. Slight oxidation discolouration on fracture surfaces. Fracture Sets; 2 sets observed. Set 1 is dipping 90 degrees with planar/undulating, rough fracture surfaces and moderate spacing. Set 2 is dipping 10 degrees with undulating, rough fracture surfaces and wide spacing. End of Borehole at 10.000m</td><td>10</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>11</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>12</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>13</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>14</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>15</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>16</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>17</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>18</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>TCR</td><td>SCR</td><td>RQD</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>														Backfill	Water Strike (m bgl)	Sampling and In-Situ Testing			Coring %			FI	Spacing (mm)	Depth (m bgl)	Level (mOD)	Legend	Stratum Description		Depth (m bgl)	Type	Results	TCR	SCR	RQD						100	100	96	9	60mm min 390mm max 100mm avg	10.00	-5.94		Lithology: Strong, grey, fossiliferous LimeSTONE. Weathering: Slightly weathered. Slight oxidation discolouration on fracture surfaces. Fracture Sets; 2 sets observed. Set 1 is dipping 90 degrees with planar/undulating, rough fracture surfaces and moderate spacing. Set 2 is dipping 10 degrees with undulating, rough fracture surfaces and wide spacing. End of Borehole at 10.000m	10															11															12															13															14															15															16															17															18						TCR	SCR	RQD							
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					100	100	96	9	60mm min 390mm max 100mm avg	10.00	-5.94		Lithology: Strong, grey, fossiliferous LimeSTONE. Weathering: Slightly weathered. Slight oxidation discolouration on fracture surfaces. Fracture Sets; 2 sets observed. Set 1 is dipping 90 degrees with planar/undulating, rough fracture surfaces and moderate spacing. Set 2 is dipping 10 degrees with undulating, rough fracture surfaces and wide spacing. End of Borehole at 10.000m	10																																																																																																																																																																										
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Shift Data				Chiselling Details				Plant Dando 2000 & Soilmec PSM																																																																																																																																																																																
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18/03/2025 18:00		2.90	Dry	End of shift.					Casing Details																																																																																																																																																																															
03/04/2025 08:00		0.00		Start of shift.					Depth (m) 2.40																																																																																																																																																																															
03/04/2025 18:00		10.00	2.20	End of borehole.					Diameter (mm) 131																																																																																																																																																																															
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Remarks					Groundwater Details																																																																																																																																																																																			
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					2.10	2.0	10	See shift data.																																																																																																																																																																																
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Photographic Record



Number:	BH304	Project Project No Engineer	Cleeves Riverside Quarter P25019 ARUP
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Photographic Record

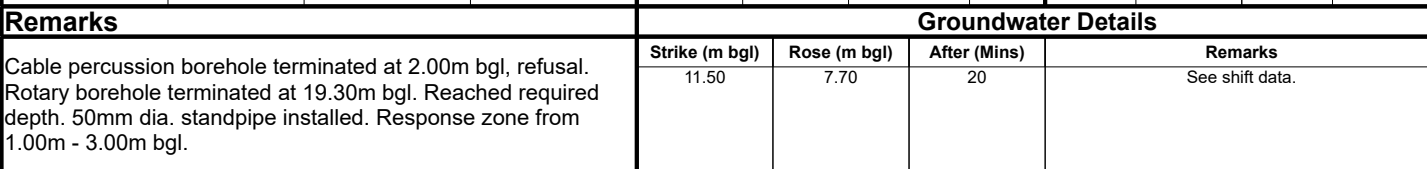


Number:

BH304

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP



Drilled By	Location
AJ & JM	BH305
Logged By	
NS	Sheet 2 of 3
57278N	Hole Type
	CP+RC
m OD	Scale
	1:50
- 29/04/2025	

Drilled By	Location
AJ & JM	BH305
Logged By	
NS	Sheet 3 of 3
57278N	Hole Type
	CP+RC
m OD	Scale
	1:50

- 29/04/2025

Photographic Record



Number:

BH305

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

Photographic Record



Number:

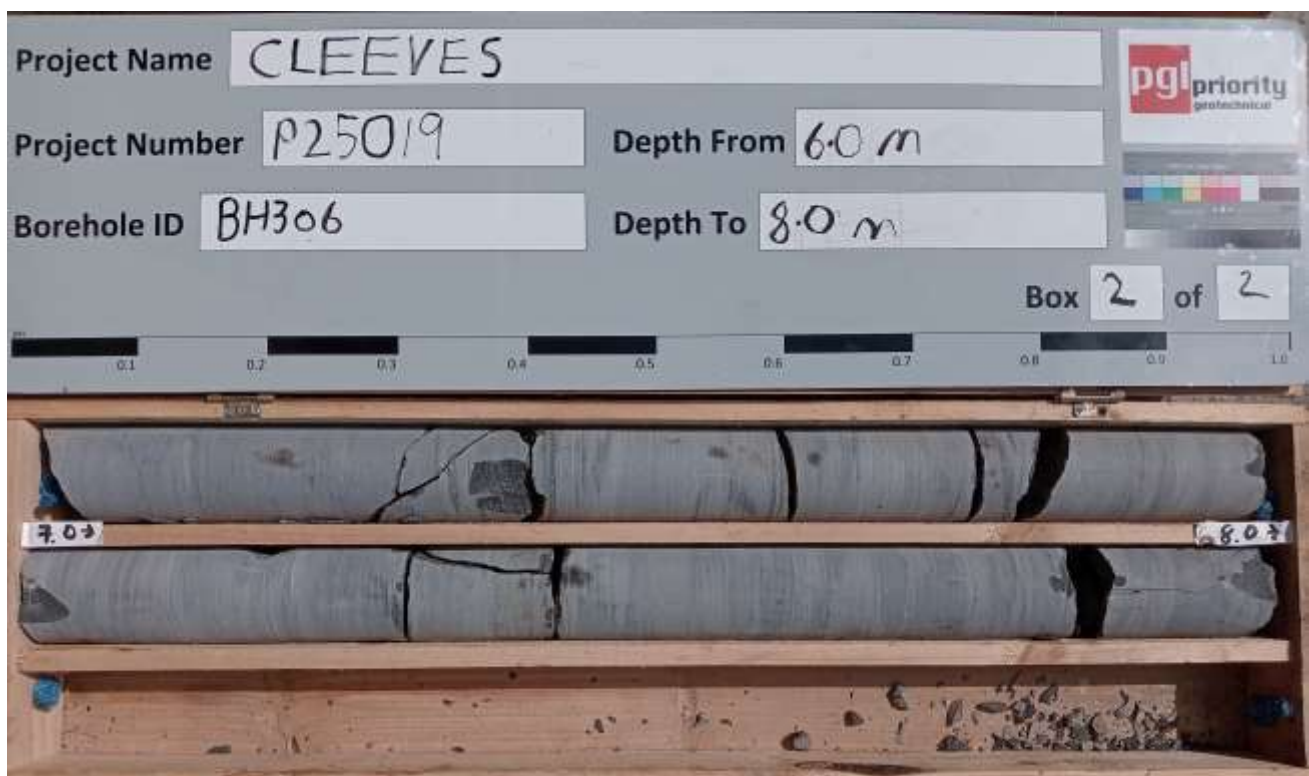
BH305

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

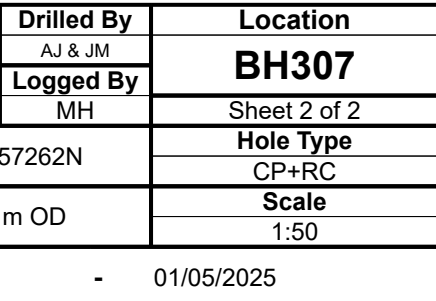
pgl priority geotechnical Priority Geotechnical Ltd. Tel: 021 4631600 www.prioritygeotechnical.ie										Drilled By		Location																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Project Name					Cleeves Riverside Quarter Development - Ground Investigation					Project No.		Co-ords																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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		0.50 0.50 - 1.00	ES B	N=43 (9,15/21,8,7,7)															(MADE GROUND) Brown, slightly sandy gravelly CLAY with bricks and construction rubble. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to rounded.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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		1.50	ES																(MADE GROUND) Stiff, dark brown, slightly gravelly CLAY with organic material (plant matter). Gravel is fine to medium and sub-rounded.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		1.80 - 2.30 2.00	B SPT(C)		54 (8,12/54 for 225mm)														2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		2.50	SPT(C)	50 (25 for 0mm/50 for 0mm)															(MADE GROUND) Brown, slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		3.00 - 4.30																	Open hole drilling. Driller described: CLAY with boulder content.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
																			2.50m: SPT: 12, 20, 25																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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		4.30 - 5.40																		Fractures: 4 sets observed. Set 1 is dipping 0 degrees with undulating, smooth fracture surfaces and moderate spacing. Set 2 is dipping 90 degrees with undulating, rough fracture surfaces and close spacing. Set 3 is dipping 160 degrees with stepped, rough fracture surfaces and close spacing. Set 4 is dipping 110 degrees with undulating, rough fracture surfaces and moderate spacing.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
		5.40 - 7.00																		3.00m - 4.00m: Core is brecciated.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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Photographic Record



Number:	BH306	Project Project No Engineer	Cleeves Riverside Quarter P25019 ARUP
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Drilled By	Location
AJ & JM	BH307
Logged By	
MH	Sheet 1 of 2
57262N	Hole Type
	CP+RC
m OD	Scale
	1:50
- 01/05/2025	



Shift Data				Chiselling Details				Plant	Dando 2000 & Soilmec PSM			
Date & Time	Depth (m bgl)	Water (m bgl)	Remarks	Top (m bgl)	Base (m bgl)	Duration (hh:mm)	Tool	Method	Compressed air mist			
12/03/2025 08:00	0.00	Dry	Start of shift.	2.10	2.30	01:00	Chisel.	Hole Details		Casing Details		
12/03/2025 18:00	2.30		End of shift. Start of shift. End of borehole.					Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)	
01/05/2025 08:00	0.00							2.30	200	2.30	200	
01/05/2025 18:00	10.00							4.50	131	4.50	131	
			10.00					76				

Remarks	Groundwater Details			
	Strike (m bgl)	Rose (m bgl)	After (Mins)	Remarks
Inspection pit dug prior to drilling. Cable percussion borehole terminated at 2.30m bgl, refusal. Rotary borehole terminated at 10.00m bgl. Reached required depth. 50mm dia. standpipe installed. Response zone from 3.50m - 5.50m bgl.	7.40			See shift data.

Photographic Record



Number:	BH307	Project Project No Engineer	Cleeves Riverside Quarter P25019 ARUP
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Photographic Record

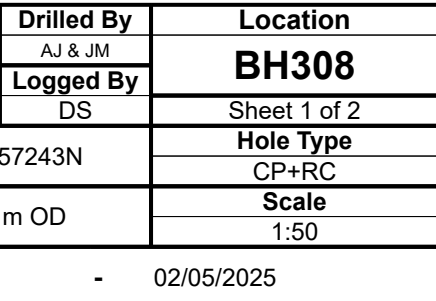
Project Name	CLEEVES			
Project Number	P25019	Depth From	9.4m	
Borehole ID	BH307	Depth To	10.0m	
				Box 3 of 3
				
				

Number:

BH307

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP



Shift Data				Chiselling Details				Plant	Dando 2000 & Soilmec PSM			
Date & Time	Depth (m bgl)	Water (m bgl)	Remarks	Top (m bgl)	Base (m bgl)	Duration (hh:mm)	Tool	Method	Compressed air mist			
12/03/2025 08:00	0.00	Dry	Start of shift.	1.30	1.50	00:30	Chisel.	Hole Details		Casing Details		
12/03/2025 18:00	1.90		End of shift.	1.80	1.90	01:00	Chisel.	Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)	
01/05/2025 08:00	0.00		Start of shift.					1.90	200	1.90	200	
01/05/2025 18:00	10.30	Dry	End of borehole.					5.50	131	5.50	131	
								10.30	76			

Remarks	Groundwater Details			
	Strike (m bgl)	Rose (m bgl)	After (Mins)	Remarks
Inspection pit dig prior to drilling. Cable percussion borehole terminated at 1.90m bgl, refusal. Rotary borehole terminated at 10.30m bgl. Reached required depth. 50mm dia. standpipe installed. Response zone from 5.50m - 7.50m bgl.	9.00	6.50	20	See shift data.

pgl priority geotechnical Priority Geotechnical Ltd. Tel: 021 4631600 www.prioritygeotechnical.ie										Drilled By		Location							
										AJ & JM		BH308							
										Logged By									
										DS		Sheet 2 of 2							
Project Name					Cleeves Riverside Quarter Development - Ground Investigation					Project No.		P25019		Co-ords		556999E - 657243N		Hole Type	
Location					Limerick City					Level		11.66		m OD				CP+RC	
Client					Limerick Twenty Thirty (LTT)					Date		12/03/2025				- 02/05/2025		Scale	
																		1:50	
Backfill	Water Strike (m bgl)	Sampling and In-Situ Testing			Coring %			FI	Spacing (mm)	Depth (m bgl)	Level (mOD)	Legend	Stratum Description						
		Depth (m bgl)	Type	Results	TCR	SCR	RQD												
					95	91	86	5	0mm min 490mm max 230mm avg	10.30	1.36		Lithology: Strong, grey, fossiliferous LIMESTONE.		10				
													Weathering: Slightly weathered. Oxidation discolouration present on fracture surfaces. Clay infilling present on fracture surfaces at 5.60m, 7.10m and 7.40m bgl.		11				
													Fractures: 3 sets observed. Set 1 is dipping 90 degrees with undulating, rough fracture surfaces and close spacing. Set 2 is dipping 120-130 degrees with undulating, rough fracture surfaces and wide spacing. Set 3 is dipping 0 degrees with planar, rough fracture surfaces and very wide spacing.		12				
													End of Borehole at 10.300m		13				
															14				
															15				
															16				
															17				
															18				
Shift Data					Chiselling Details					Plant		Dando 2000 & Soilmec PSM							
Date & Time		Depth (m bgl)		Water (m bgl)		Remarks		Top (m bgl)		Base (m bgl)		Duration (hh:mm)		Tool		Method		Compressed air mist	
12/03/2025 08:00		0.00				Start of shift.		1.30		1.50		00:30		Chisel.		Hole Details Casing Details			
12/03/2025 18:00		1.90		Dry		End of shift.		1.80		1.90		01:00		Chisel.					
01/05/2025 08:00		0.00				Start of shift.													
01/05/2025 18:00		10.30		Dry		End of borehole.													
Remarks					Groundwater Details														
Inspection pit dig prior to drilling. Cable percussion borehole terminated at 1.90m bgl, refusal. Rotary borehole terminated at 10.30m bgl. Reached required depth. 50mm dia. standpipe installed. Response zone from 5.50m - 7.50m bgl.					Strike (m bgl)		Rose (m bgl)		After (Mins)		Remarks								
					9.00		6.50		20		See shift data.								

Photographic Record



Number:	BH308	Project Project No Engineer	Cleeves Riverside Quarter P25019 ARUP
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Drilled By	Location
AJ & JM	BH309
Logged By	
SR	Sheet 1 of 1
57120N	Hole Type
	CP+RC
m OD	Scale
	1:50
- 14/04/2025	

Backfill	Water Strike (m bgl)	Sampling and In-Situ Testing			Coring %			FI	Spacing (mm)	Depth (m bgl)	Level (mOD)	Legend	Stratum Description	
		Depth (m bgl)	Type	Results	TCR	SCR	RQD							
										0.10	4.00		Bituminous surfacing.	
		0.50 0.50 - 1.00	ES B	N=41 (10,10/20,7,6,8)									(MADE GROUND) Stiff, greyish black, slightly gravelly sandy CLAY with low cobble content and timber fragments. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-rounded. Cobbles are sub-rounded to rounded, limestone lithology and 63-80mm in diameter.	1
		1.00 - 1.50 1.00	B SPT(C)										0.10m - 2.00m: Sand content increasing with depth.	
		1.50 - 2.00 1.50	ES B											
		2.00 - 2.50 2.00	B SPT(C)	N=50 (7,16/16,18,10,6)						2.00	2.10		(MADE GROUND) Stiff, greyish black, very clayey very sandy GRAVEL with timber fragments. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-rounded. Cobbles are sub-rounded to rounded, limestone lithology and 63-80mm in diameter.	2
		2.50 2.50	ES SPT(C)	50 (25 for 75mm/50 for 0mm)						2.50	1.60			
		2.80 - 3.20 3.00	B SPT(C)	N=16 (5,6/4,5,3,4)									Firm, greyish black, slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse.	3
		3.20 - 3.50 3.20	B											
		3.80 - 4.00 4.00	B SPT(C)	50 (25 for 0mm/50 for 0mm)						4.00	0.10		Lithology: Medium strong, grey LIMESTONE.	4
		4.00 - 5.20			98	98	71	14	45mm min 240mm max 155mm avg				Weathering: Moderately weathered. Reduced fracture spacing. Clay accretion present on fracture surfaces. Highly fractured between 6.8m and 7.5m bgl.	5
		5.20 - 6.80			98	98	83	11	45mm min 420mm max 190mm avg				Fractures: 3 sets observed. Set 1 is dipping 90-100 degrees with undulating, rough fracture surfaces and close spacing. Set 2 is dipping 170-180 degrees with undulating, rough fracture surfaces and wide spacing. Set 3 is dipping 150 degrees with undulating, rough fracture surfaces and wide spacing.	6
		6.80 - 7.50			93	79	66	12	35mm min 180mm max 120mm avg				SPT at 4.00m bgl = 25	7
		7.50 - 9.00			93	85	75	8	15mm min 285mm max 180mm avg					8
										9.00	-4.90		End of Borehole at 9.000m	9
					TCR	SCR	RQD							

Shift Data				Chiselling Details				Plant	Dando 2000 & Soilmec PSM			
Date & Time	Depth (m bgl)	Water (m bgl)	Remarks	Top (m bgl)	Base (m bgl)	Duration (hh:mm)	Tool	Method	Compressed air mist			
20/03/2025 08:00	0.00	8.00	Start of shift.	2.20	2.60	01:00	Chisel.	Hole Details		Casing Details		
20/03/2025 18:00	4.00		End of shift	3.80	4.00	01:00	Chisel.	Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)	
14/04/2025 08:00	0.00		Start of shift.					4.00	131	4.00	131	
14/04/2025 18:00	9.00		End of borehole.					9.00	76			

Remarks	Groundwater Details			
	Strike (m bgl)	Rose (m bgl)	After (Mins)	Remarks
Inspection pit dug prior to drilling. Cable percussion borehole terminated at 4.00m bgl, refusal. Rotary borehole terminated at 9.00m bgl. Reached required depth. 50mm standpipe installed. Response zone from 1.00m to 3.00m bgl.	7.50	6.80	20	See shift data.

Photographic Record



Number:

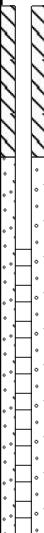
BH309

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

Drilled By	Location
AJ & JM	BH310
Logged By	
SR	Sheet 1 of 1
57138N	Hole Type
	CP+RC
m OD	Scale
	1:50

- 14/04/2025

Backfill	Water Strike (m bgl)	Sampling and In-Situ Testing			Coring %			FI	Spacing (mm)	Depth (m bgl)	Level (mOD)	Legend	Stratum Description		
		Depth (m bgl)	Type	Results	TCR	SCR	RQD								
										0.10	4.23		Bituminous surfacing.		
										0.30	4.03		CONCRETE.		
										0.40	3.93		(MADE GROUND) BRICKS.		
										0.50	3.83		CONCRETE.		
		0.50 0.50 - 1.00	ES B												
		1.00 - 1.50 1.00 1.20	B SPT(C) SPT(C)	N=13 (4,10/4,3,3,3) 50 (25 for 75mm/50 for 0mm)						1.00	3.33		(MADE GROUND) Black, silty very sandy GRAVEL with high cobble content. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-rounded. Cobbles are angular to sub-rounded, of varied lithology and 63-100mm in diameter.	1	
		1.50 1.50 - 2.00	ES B												
		2.00	SPT(C)	51 (10,12/51 for 150mm)											2
		2.40 2.40 - 4.00	SPT(C)	50 (25 for 75mm/50 for 0mm)						2.40	1.93		(MADE GROUND) Brownish black, clayey very sandy GRAVEL with low cobble content and red brick fragments. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.		
													<i>2.00m - 2.30m: No red brick fragments present. Brown in colour.</i>		
					96	96	81	13					Lithology: Strong, dark grey LIMESTONE.	3	
													Weathering: Slightly weathered to fresh.		
		4.00 - 5.40											Fractures: 4 sets observed. Set 1 is dipping 90 degrees with undulating, rough fracture surfaces and moderate spacing. Set 2 is dipping 110 degrees with undulating, rough fracture surfaces and moderate spacing. Set 3 is dipping 30 degrees with planar, smooth fracture surfaces and close spacing. Set 4 is dipping 0 degrees with planar, smooth fracture surfaces and very wide spacing.	4	
					97	97	95	7						5	
		5.40 - 6.80												6	
					98	97	86	9							
		6.80 - 8.00												7	
					100	100	91	7							
										8.00	-3.67		End of Borehole at 8.000m	8	
														9	
					TCR	SCR	RQD								

Shift Data				Chiselling Details				Plant	Dando 2000 & Soilmec PSM			
Date & Time	Depth (m bgl)	Water (m bgl)	Remarks	Top (m bgl)	Base (m bgl)	Duration (hh:mm)	Tool	Method	Compressed air mist.			
20/03/2025 08:00	0.00		Start of shift.	2.10	2.30	01:00	Chisel.	Hole Details		Casing Details		
20/03/2025 18:00	1.00	Dry	End of shift.					Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)	
21/03/2025 08:00	1.00	Dry	Start of shift.					2.30	200	2.30	200	
21/03/2025 18:00	2.30	Dry	End of shift.					2.40	131	2.40	131	
16/04/2025 08:00	0.00		Start of shift.					8.00	76			
16/04/2025 18:00	8.00	5.20	End of borehole.									

Remarks	Groundwater Details			
	Strike (m bgl)	Rose (m bgl)	After (Mins)	Remarks
Cable percussion borehole terminated at 2.30m bgl, refusal. Rotary borehole terminated at 8.00m bgl. Reached required depth. 50mm standpipe installed. Response zone from 1.50m to 3.50m bgl.	5.40	4.90	20	See shift data.

Photographic Record



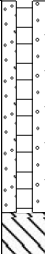
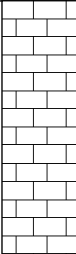
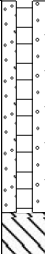
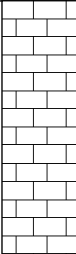
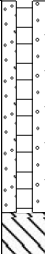
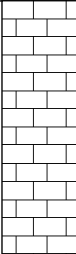
Number:

BH310

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

pgl priority geotechnical Priority Geotechnical Ltd. Tel: 021 4631600 www.prioritygeotechnical.ie										Drilled By AJ & JM		Location BH311																																																																																																																																																																																											
										Logged By SR		Sheet 1 of 2																																																																																																																																																																																											
Project Name Cleeves Riverside Quarter Development - Ground Investigation					Project No. P25019		Co-ords 556969E - 657068N					Hole Type CP+RC																																																																																																																																																																																											
Location Limerick City					Level 3.63 m OD					Scale 1:50																																																																																																																																																																																													
Client Limerick Twenty Thirty (LTT)					Date 21/03/2025 - 11/04/2025																																																																																																																																																																																																		
<table><tr><td rowspan="2">Backfill</td><td rowspan="2">Water Strike (m bgl)</td><td colspan="3">Sampling and In-Situ Testing</td><td colspan="3">Coring %</td><td rowspan="2">FI</td><td rowspan="2">Spacing (mm)</td><td rowspan="2">Depth (m bgl)</td><td rowspan="2">Level (mOD)</td><td rowspan="2">Legend</td><td rowspan="2">Stratum Description</td><td rowspan="2"></td></tr><tr><td>Depth (m bgl)</td><td>Type</td><td>Results</td><td>TCR</td><td>SCR</td><td>RQD</td></tr><tr><td rowspan="10"> </td><td></td><td>0.50 0.50 - 1.00</td><td>ES B</td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.40</td><td>3.23</td><td></td><td>CONCRETE.</td><td></td></tr><tr><td></td><td>1.00 - 1.50 1.00</td><td>B SPT(C)</td><td>N=10 (3,3/2,3,2,3)</td><td></td><td></td><td></td><td></td><td></td><td></td><td>1.50</td><td>2.13</td><td></td><td>(MADE GROUND) Black, slightly sandy gravelly SILT. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular.</td><td>1</td></tr><tr><td></td><td>1.50 - 2.00 2.00</td><td>ES B</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.50</td><td>1.13</td><td></td><td>(MADE GROUND) Mottled brown and black, slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-rounded.</td><td>2</td></tr><tr><td></td><td>2.00 - 2.50 2.00</td><td>B SPT(C)</td><td>N=13 (2,3/3,4,3,3)</td><td></td><td></td><td></td><td></td><td></td><td></td><td>3.50</td><td>0.13</td><td></td><td>Stiff, brown, slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to medium and angular to sub-angular.</td><td>3</td></tr><tr><td></td><td>2.50 - 3.00 3.00</td><td>ES B</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4.10</td><td>-0.47</td><td></td><td>Greyish brown, slightly clayey sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular.</td><td>4</td></tr><tr><td></td><td>3.80 - 4.10 4.00</td><td>B SPT(C)</td><td>50 (25 for 40mm/50 for 0mm)</td><td></td><td></td><td></td><td></td><td></td><td></td><td>5.50</td><td>-1.87</td><td></td><td>Open hole drilling: Driller described: Stiff, gravelly CLAY.</td><td>5</td></tr><tr><td></td><td>5.50</td><td>SPT(C)</td><td>N=63 (8,12/16,14,15,18)</td><td></td><td></td><td></td><td></td><td></td><td></td><td>7.00</td><td>-3.37</td><td></td><td>Open hole drilling. Driller described: Dense, gravelly BOULDERS.</td><td>6</td></tr><tr><td></td><td>7.00</td><td>SPT(C)</td><td>25 (14,15/25 for 75mm)</td><td></td><td></td><td></td><td></td><td></td><td></td><td>7.50</td><td>-3.87</td><td></td><td>Open hole drilling. Driller described: Stiff, CLAY with boulder content.</td><td>7</td></tr><tr><td></td><td>7.50 - 8.80</td><td>SPT(C)</td><td>25 (15,21/25 for 75mm)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Lithology: Medium strong, grey, LIMESTONE with calcite veining.</td><td>8</td></tr><tr><td></td><td>9.00 - 9.50</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Weathering; Highly weathered. Reduced strength. Reduced fracture spacing. Oxidation discolouration present on fracture surfaces. Clay infilling present on fracture surfaces. Core is brecciated between 7.50m to 8.80m and 9.0m to 9.40m</td><td>9</td></tr><tr><td></td><td></td><td></td><td></td><td>TCR</td><td>SCR</td><td>RQD</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>														Backfill	Water Strike (m bgl)	Sampling and In-Situ Testing			Coring %			FI	Spacing (mm)	Depth (m bgl)	Level (mOD)	Legend	Stratum Description		Depth (m bgl)	Type	Results	TCR	SCR	RQD			0.50 0.50 - 1.00	ES B							0.40	3.23		CONCRETE.			1.00 - 1.50 1.00	B SPT(C)	N=10 (3,3/2,3,2,3)							1.50	2.13		(MADE GROUND) Black, slightly sandy gravelly SILT. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular.	1		1.50 - 2.00 2.00	ES B								2.50	1.13		(MADE GROUND) Mottled brown and black, slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-rounded.	2		2.00 - 2.50 2.00	B SPT(C)	N=13 (2,3/3,4,3,3)							3.50	0.13		Stiff, brown, slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to medium and angular to sub-angular.	3		2.50 - 3.00 3.00	ES B								4.10	-0.47		Greyish brown, slightly clayey sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular.	4		3.80 - 4.10 4.00	B SPT(C)	50 (25 for 40mm/50 for 0mm)							5.50	-1.87		Open hole drilling: Driller described: Stiff, gravelly CLAY.	5		5.50	SPT(C)	N=63 (8,12/16,14,15,18)							7.00	-3.37		Open hole drilling. Driller described: Dense, gravelly BOULDERS.	6		7.00	SPT(C)	25 (14,15/25 for 75mm)							7.50	-3.87		Open hole drilling. Driller described: Stiff, CLAY with boulder content.	7		7.50 - 8.80	SPT(C)	25 (15,21/25 for 75mm)										Lithology: Medium strong, grey, LIMESTONE with calcite veining.	8		9.00 - 9.50												Weathering; Highly weathered. Reduced strength. Reduced fracture spacing. Oxidation discolouration present on fracture surfaces. Clay infilling present on fracture surfaces. Core is brecciated between 7.50m to 8.80m and 9.0m to 9.40m	9					TCR	SCR	RQD								
Backfill	Water Strike (m bgl)	Sampling and In-Situ Testing			Coring %			FI	Spacing (mm)	Depth (m bgl)	Level (mOD)	Legend	Stratum Description																																																																																																																																																																																										
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		1.00 - 1.50 1.00	B SPT(C)	N=10 (3,3/2,3,2,3)							1.50	2.13		(MADE GROUND) Black, slightly sandy gravelly SILT. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular.	1																																																																																																																																																																																								
		1.50 - 2.00 2.00	ES B								2.50	1.13		(MADE GROUND) Mottled brown and black, slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-rounded.	2																																																																																																																																																																																								
		2.00 - 2.50 2.00	B SPT(C)	N=13 (2,3/3,4,3,3)							3.50	0.13		Stiff, brown, slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to medium and angular to sub-angular.	3																																																																																																																																																																																								
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		9.00 - 9.50												Weathering; Highly weathered. Reduced strength. Reduced fracture spacing. Oxidation discolouration present on fracture surfaces. Clay infilling present on fracture surfaces. Core is brecciated between 7.50m to 8.80m and 9.0m to 9.40m	9																																																																																																																																																																																								
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Shift Data					Chiselling Details				Plant Dando 2000 & Soilmec PSM																																																																																																																																																																																														
Date & Time		Depth (m bgl)	Water (m bgl)	Remarks	Top (m bgl)	Base (m bgl)	Duration (hh:mm)	Tool	Method	Cable Tool																																																																																																																																																																																													
21/03/2025 08:00		0.00		Start of shift.	3.80	4.10	01:00	Chisel.	Hole Details																																																																																																																																																																																														
21/03/2025 18:00		4.10	Dry	End of shift.					Casing Details																																																																																																																																																																																														
10/04/2025 08:00		0.00		Start of shift.					Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)																																																																																																																																																																																											
10/04/2025 18:00		4.00	Dry	End of shift.					4.10	200	4.10	200																																																																																																																																																																																											
11/04/2025 08:00		4.00	Dry	Start of shift.					9.00	131	9.00	131																																																																																																																																																																																											
11/04/2025 18:00		10.80	4.70	End of borehole.					10.80	76																																																																																																																																																																																													
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Cable percussion borehole terminated at 4.10m bgl, refusal. Rotary borehole terminated at 10.80m bgl. Reached required depth. 50mm dia. standpipe installed, Response zone from 8.50m - 10.50m bgl.					Strike (m bgl)	Rose (m bgl)	After (Mins)	Remarks																																																																																																																																																																																															
					3.80 4.70	5.80	20	See shift data. See shift data.																																																																																																																																																																																															

pgl priority geotechnical Priority Geotechnical Ltd. Tel: 021 4631600 www.prioritygeotechnical.ie										Drilled By AJ & JM		Location BH311																																																																																																																																																																				
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Project Name Cleeves Riverside Quarter Development - Ground Investigation					Project No. P25019		Co-ords 556969E - 657068N					Hole Type CP+RC																																																																																																																																																																				
Location Limerick City					Level 3.63 m OD					Scale 1:50																																																																																																																																																																						
Client Limerick Twenty Thirty (LTT)					Date 21/03/2025 - 11/04/2025																																																																																																																																																																											
<table><tr><td rowspan="2">Backfill</td><td rowspan="2">Water Strike (m bgl)</td><td colspan="3">Sampling and In-Situ Testing</td><td colspan="3">Coring %</td><td rowspan="2">FI</td><td rowspan="2">Spacing (mm)</td><td rowspan="2">Depth (m bgl)</td><td rowspan="2">Level (mOD)</td><td rowspan="2">Legend</td><td rowspan="2">Stratum Description</td><td rowspan="2"></td></tr><tr><td>Depth (m bgl)</td><td>Type</td><td>Results</td><td>TCR</td><td>SCR</td><td>RQD</td></tr><tr><td rowspan="2"></td><td rowspan="2"></td><td rowspan="2">9.50 - 10.80</td><td rowspan="2"></td><td rowspan="2"></td><td>100</td><td>42</td><td>38</td><td rowspan="2">>20</td><td rowspan="2">0mm min 190mm max 200mm avg</td><td rowspan="2">10.80</td><td rowspan="2">-7.17</td><td rowspan="2"></td><td rowspan="2">Lithology: Medium strong, grey, LIMESTONE with calcite veining. Weathering; Highly weathered. Reduced strength. Reduced fracture spacing. Oxidation discolouration present on fracture surfaces. Clay infilling present on fracture surfaces. Core is brecciated between 7.50m to 8.80m and 9.0m to 9.40m bgl. Fracture Sets; 2 sets observed. Set 1 is dipping 90-100 degrees with undulating, rough fracture surfaces and close spacing. Set 2 is dipping 20 degrees with smooth rough fracture surfaces and wide spacing. <u>7.50m - 9.00m: Borehole recased due to hole falling in.</u> End of Borehole at 10.800m</td><td rowspan="2">10</td></tr><tr><td>95</td><td>58</td><td>58</td><td>11</td><td>0mm min 280mm max 145mm avg</td><td>11</td><td>11</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>12</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>13</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>14</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>15</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>16</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>17</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>18</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>TCR</td><td>SCR</td><td>RQD</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>														Backfill	Water Strike (m bgl)	Sampling and In-Situ Testing			Coring %			FI	Spacing (mm)	Depth (m bgl)	Level (mOD)	Legend	Stratum Description		Depth (m bgl)	Type	Results	TCR	SCR	RQD			9.50 - 10.80			100	42	38	>20	0mm min 190mm max 200mm avg	10.80	-7.17		Lithology: Medium strong, grey, LIMESTONE with calcite veining. Weathering; Highly weathered. Reduced strength. Reduced fracture spacing. Oxidation discolouration present on fracture surfaces. Clay infilling present on fracture surfaces. Core is brecciated between 7.50m to 8.80m and 9.0m to 9.40m bgl. Fracture Sets; 2 sets observed. Set 1 is dipping 90-100 degrees with undulating, rough fracture surfaces and close spacing. Set 2 is dipping 20 degrees with smooth rough fracture surfaces and wide spacing. <u>7.50m - 9.00m: Borehole recased due to hole falling in.</u> End of Borehole at 10.800m	10	95	58	58	11	0mm min 280mm max 145mm avg	11	11															12															13															14															15															16															17															18						TCR	SCR	RQD							
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Date & Time		Depth (m bgl)	Water (m bgl)	Remarks	Top (m bgl)	Base (m bgl)	Duration (hh:mm)	Tool	Method Cable Tool																																																																																																																																																																							
21/03/2025 08:00		0.00		Start of shift.	3.80	4.10	01:00	Chisel.																																																																																																																																																																								
21/03/2025 18:00		4.10	Dry	End of shift.																																																																																																																																																																												
10/04/2025 08:00		0.00		Start of shift.																																																																																																																																																																												
10/04/2025 18:00		4.00	Dry	End of shift.																																																																																																																																																																												
11/04/2025 08:00		4.00	Dry	Start of shift.																																																																																																																																																																												
11/04/2025 18:00		10.80	4.70	End of borehole.																																																																																																																																																																												
<table><tr><td colspan="4"></td><td colspan="4"> Groundwater Details </td></tr><tr><td colspan="4" rowspan="2">Remarks Cable percussion borehole terminated at 4.10m bgl, refusal. Rotary borehole terminated at 10.80m bgl. Reached required depth. 50mm dia. standpipe installed, Response zone from 8.50m - 10.50m bgl.</td><td colspan="1"> Strike (m bgl) </td><td colspan="1"> Rose (m bgl) </td><td colspan="1"> After (Mins) </td><td colspan="3"> Remarks </td></tr><tr><td>3.80 4.70</td><td>5.80</td><td>20</td><td colspan="3">See shift data. See shift data.</td></tr></table>														Groundwater Details				Remarks Cable percussion borehole terminated at 4.10m bgl, refusal. Rotary borehole terminated at 10.80m bgl. Reached required depth. 50mm dia. standpipe installed, Response zone from 8.50m - 10.50m bgl.				Strike (m bgl)	Rose (m bgl)	After (Mins)	Remarks			3.80 4.70	5.80	20	See shift data. See shift data.																																																																																																																																																	
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				3.80 4.70	5.80	20	See shift data. See shift data.																																																																																																																																																																									

Photographic Record



Number:

BH311

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

Drilled By	Location
AJ & JM	BH312
Logged By	
SR	Sheet 1 of 2
57092N	Hole Type
	CP+RC
m OD	Scale
	1:50
- 14/04/2025	

Drilled By	Location
AJ & JM	BH312
Logged By	
SR	Sheet 2 of 2
57092N	Hole Type
	CP+RC
m OD	Scale
	1:50
- 14/04/2025	

Photographic Record



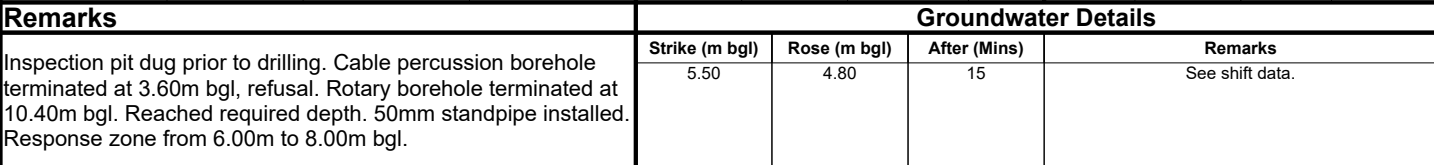
Number:

BH312

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

Drilled By	Location
AJ & JM	BH314
Logged By	
SR	Sheet 1 of 2
57222N	Hole Type
	CP+RC
m OD	Scale
	1:50
- 04/04/2024	



Photographic Record



Number:

BH314

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

Remarks	Groundwater Details			
	Strike (m bgl)	Rose (m bgl)	After (Mins)	Remarks
Inspection pit dug prior to drilling. Cable percussion borehole terminated at 3.50m bgl, refusal. Rotary borehole terminated at 10.00m bgl. Reached required depth.	6.80	5.5	20	See shift data.

Drilled By	Location
AJ & JM	BH315
Logged By	
SR	Sheet 2 of 2
57122N	Hole Type
	CP+RC
m OD	Scale
	1:50
- 09/04/2025	

Photographic Record



Number:

BH315

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

Photographic Record



Number:

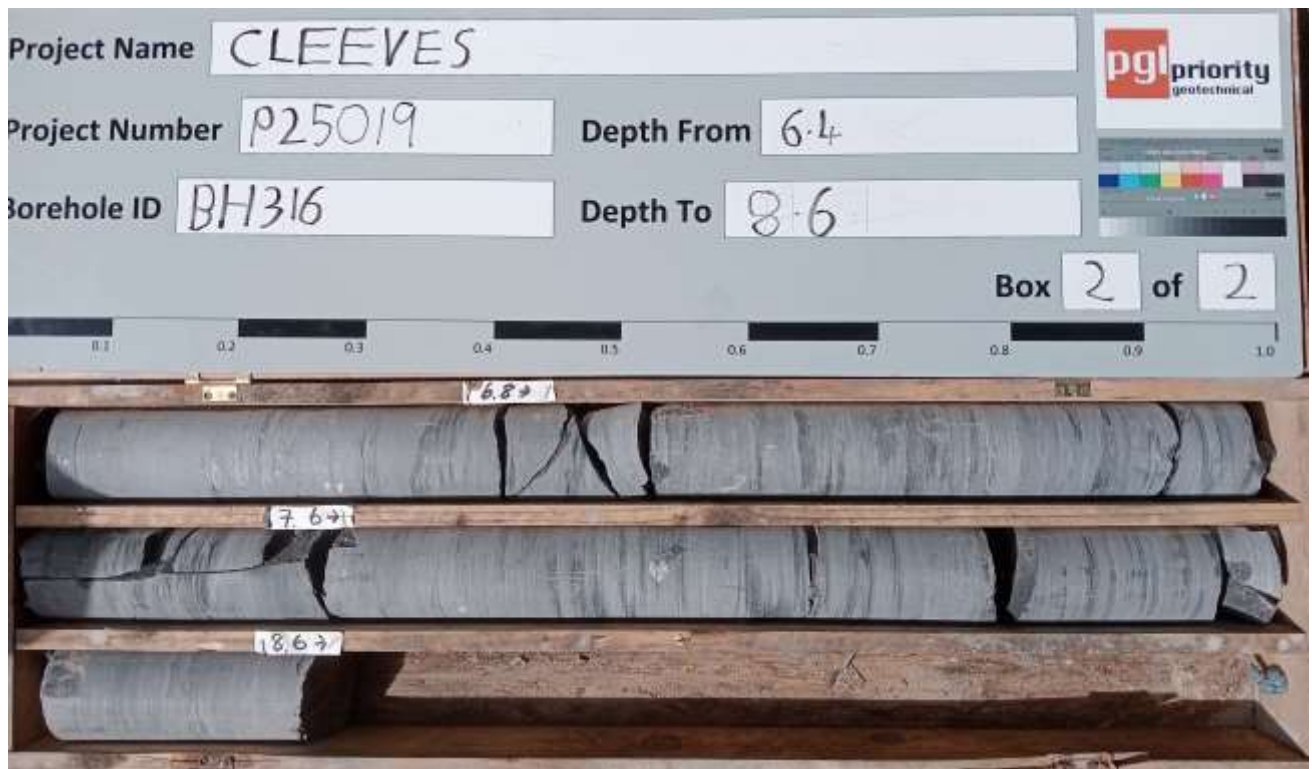
BH315

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

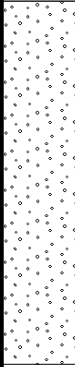
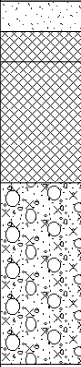
Drilled By	Location
AJ & JM	BH316
Logged By	
SR	Sheet 1 of 1
57131N	Hole Type
	CP+RC
m OD	Scale
	1:50
- 10/04/2025	

Photographic Record



Number: BH316	Project Cleeves Riverside Quarter Project No P25019 Engineer ARUP	
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				Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie				Trial Pit No TP301 Sheet 1 of 1	
Project Name: Cleeves Riverside Quarter Development - Ground Investigation				Project No. P25019		Co-ords: 556773E - 657289N Level: 12.97m OD		Date 14/03/2025	
Location: Limerick City						Dimensions (m): 0.65 1.50		Scale 1:25	
Client: Limerick Twenty Thirty (LTT)						Depth: 1.20m BGL		Logged AO	

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.10	12.87		CONCRETE.
				0.20	12.77		(MADE GROUND) Dark grey, slightly clayey slightly sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.
	0.40 - 0.50	B					(MADE GROUND) Reddish brown, silty very sandy GRAVEL with medium cobble content and high boulder content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are angular to sub-rounded, Limestone lithology and 63-200mm in diameter. Boulders are angular, Limestone lithology and 200-400mm in diameter.
	0.50	D					
	0.50	ES		0.60	12.37		
	0.80 - 1.20	B					Brown, clayey gravelly SAND with high cobble content and high boulder content. Sand is fine to coarse. Gravel is fine to coarse and angular. Cobbles are angular to sub-angular, Limestone lithology and 63-200mm in diameter. Boulders are angular, Limestone lithology and 200-400mm in diameter.
	1.20	D		1.20	11.77		
	1.20	ES					End of Pit at 1.20m
	2.00	D					

Stability: Moderate
Plant: 3t tracked excavator.
Backfill: Gravel and macadam.

Groundwater: None encountered.

Remarks: Trial pit terminated at 1.20m bgl, refusal on Limestone bedrock. Ground conditions unsuitable for plate load test. Soakaway test carried out.

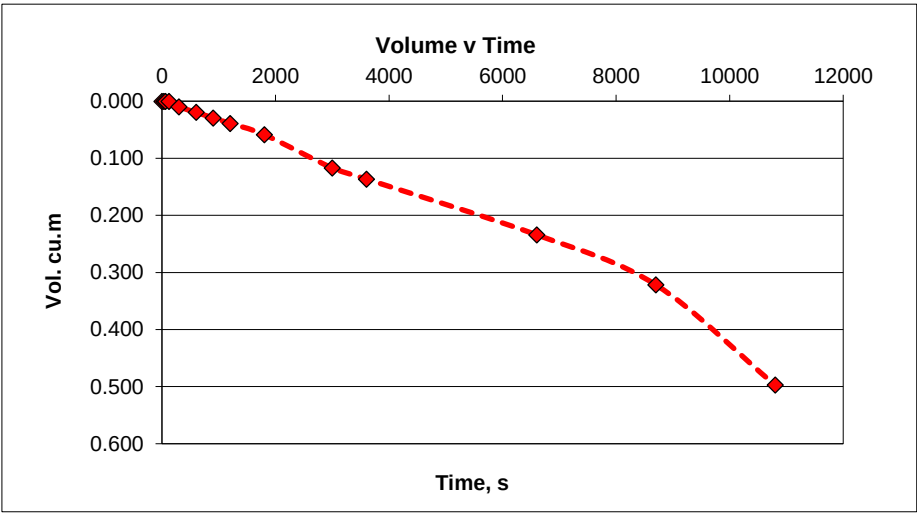
Test 1

SA TP301

l, m 1.500 b, m 0.650 d, m 1.200
l_base, m 1.500 d_eff, m 0.510
l_eff, m 1.500

10:05	Time, min	Measure, m bgl	Time, sec	Depth water, m	Fall, m	Volume
	0	0.690	0	0.51	0.00	0.000
	0.5	0.690	30	0.51	0.00	0.000
	1	0.690	60	0.51	0.00	0.000
	2	0.690	120	0.51	0.00	0.000
	5	0.700	300	0.50	0.01	0.010
	10	0.710	600	0.49	0.02	0.020
	15	0.720	900	0.48	0.03	0.029
	20	0.730	1200	0.47	0.04	0.039
	30	0.750	1800	0.45	0.06	0.059
	50	0.810	3000	0.39	0.12	0.117
	60	0.830	3600	0.37	0.14	0.137
	110	0.930	6600	0.27	0.24	0.234
	145	1.020	8700	0.18	0.33	0.322
	180	1.200	10800	0.00	0.51	0.497

Area 0.975 m^2 V_{p75-25 theory} volume 0.2486 m^3
50% Area_eff, a_{p50} 2.072 m^2 V_{p 75 - 25 actual} volume 0.2486 m^3
50% Area_act, a_{p50} 2.072 m^2 t_{p 75- 25 actual} time 6075 s
Infiltration Coefficient *f* 1.98E-05 ms^-1



NOTES:
Pit assumed unsaturated on first fill



Number:

TP301

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP



Number:

TP301

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

				Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie				Trial Pit No TP302 Sheet 1 of 1	
Project Name: Cleeves Riverside Quarter Development - Ground Investigation				Project No. P25019		Co-ords: 556823E - 657269N Level: 12.61m OD		Date 24/03/2025	
Location: Limerick City						Dimensions (m): 1.65 0.70		Scale 1:25	
Client: Limerick Twenty Thirty (LTT)						Depth: 0.55m BGL		Logged AO	
Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description		
	Depth (m)	Type	Results						
				0.06	12.55	 Bituminous surfacing. (MADE GROUND) Dark grey, slightly sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse and angular.	(MADE GROUND) Dark grey, slightly sandy slightly gravelly CLAY with occasional brick fragments. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular.		
				0.15	12.46				
	0.30 - 0.50	B		0.30	12.31				
	0.50	D		0.55	12.06				
	0.50	ES				 Brown, clayey very sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are angular to sub-angular, Limestone lithology and 63-200mm in diameter.	End of Pit at 0.550m		
1 2 3 4 5									
Stability: Good Plant: 3t tracked excavator. Backfill: Arisings.						Groundwater: None encountered.			
Remarks: Trial pit terminated at 0.55m bgl, refusal on suspected on bedrock.									

Photographic Record



Number:

TP302

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP



Number:

TP302

**Project
Project No
Engineer**

Cleeves Riverside Quarter
P25019
ARUP

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie				Trial Pit No TP303 Sheet 1 of 1	
Project Name: Cleeves Riverside Quarter Development - Ground Investigation		Project No. P25019		Co-ords: 556870E - 657256N Level: 4.29m OD		Date 25/03/2025	
Location: Limerick City				Dimensions (m): 1.00 5.00		Scale 1:25	
Client: Limerick Twenty Thirty (LTT)				Depth: 2.60m BGL		Logged AO	

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
	0.20			0.20	4.09		(MADE GROUND) Grey, sandy GRAVEL. Sand is fine to coarse Gravel is fine to coarse and sub-angular to sub-rounded.	
	0.30			0.30	3.99		CONCRETE.	
	1.00 1.00 - 1.50 1.10	ES B ES					(MADE GROUND) Dark greyish brown, slightly clayey sandy GRAVEL with high cobble content and high boulder content and waste materials (brick, timber, glass). Sand is fine to coarse. Gravel is fine to coarse and angular. Cobbles are angular, Limestone lithology and 63-200mm in diameter. Boulders are angular, Limestone lithology and >200mm in diameter.	1
	2.00	ES						2
				2.60	1.69		End of Pit at 2.600m	3
								4
								5

Stability: Poor Plant: 9t tracked excavator. Backfill: Arisings.		Groundwater: None encountered.
Remarks: Trial pit terminated at 2.60m bgl, refusal on suspected bedrock.		



Number:

TP303

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP



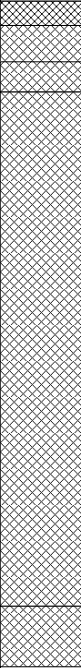
Number:

TP303

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

				Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie				Trial Pit No TP304 Sheet 1 of 1	
Project Name: Cleeves Riverside Quarter Development - Ground Investigation				Project No. P25019		Co-ords: 556790E - 657237N Level: 11.28m OD		Date 14/03/2025	
Location: Limerick City						Dimensions (m): 0.75 1.80		Scale 1:25	
Client: Limerick Twenty Thirty (LTT)						Depth: 2.20m BGL		Logged AO	

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
				0.08	11.20		Bituminous surfacing.	1
				0.20	11.08		(MADE GROUND) Dark grey, sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse and angular.	
				0.30	10.98		(MADE GROUND) Dark brown, slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse and angular.	
							(MADE GROUND) Brown, slightly sandy slightly gravelly CLAY with high cobble content & medium boulder content and occasional brick and mortar. Sand is fine to coarse. Gravel is fine to coarse and angular. Cobbles are angular to sub-angular, Limestone lithology and 63-200mm in diameter. Boulders are angular to sub-angular, Limestone lithology and 200-300mm in diameter.	
	0.50	D						
	0.50	ES						
	0.80 - 1.20	B						
	1.00	D						
	1.50	ES						
	2.00 - 2.20	B		2.00	9.28		(MADE GROUND) Dark greyish brown, slightly gravelly sandy CLAY with occasional brick fragments. Sand is fine to coarse. Gravel is fine to coarse and angular.	2
2.10	ES							
2.20	D		2.20	9.08		End of Pit at 2.20m		
								3
								4
								5

Stability: Good Plant: 3t tracked excavator. Backfill: Gravel and macadam.				Groundwater: None encountered.			
Remarks: Trial pit terminated at 2.20m bgl, refusal on suspected Limestone bedrock.							



Number:

TP304

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP



Number:

TP304

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

Project Name: Cleaves Riverside Quarter Development - Ground Investigation

Project No.
P25019

Co-ords:556804E - 657211N
Level: 11.05m OD

Date
14/03/2025

Location: Limerick City

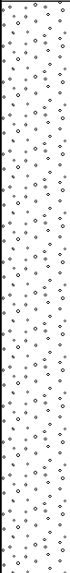
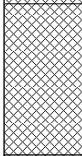
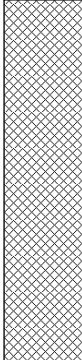
Dimensions (m): 1.60

Scale
1:25

Client: Limerick Twenty Thirty (LTT)

Depth:
1.90m BGL

Logged
AO

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.08	10.97		Bituminous surfacing.
				0.20	10.85		(MADE GORUND) Dark grey, sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular.
							(MADE GROUND) Dark brown, clayey very sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular.
							0.20m - 0.70m: Light brown lenses present.
	0.50 0.50 0.50 - 0.70	D ES B		0.70	10.35		(MADE GROUND) Brown, slightly sandy gravelly CLAY with high cobble content, high boulder content and occasional fragments of plastic, timber and brick. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular. Cobbles are sub-angular to sub-rounded, Limestone lithology and 63-200mm in diameter. Boulders are sub-angular to sub-rounded, Limestone lithology and >200mm in diameter.
	1.00 - 1.50	B					
	1.20	ES					
	1.50	D					
	1.80	ES					
				1.90	9.15		End of Pit at 1.900m

Stability:	Good
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Plant: 3t tracked excavator.

Backfill: Gravel and macadam.

Groundwater: None encountered.

Backfill:	Gravel and macadam.	
Remarks:	Trial pit terminated at 1.90m bgl. refusal on suspected Limestone boulders.	



Number:

TP305

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP



Number:

TP305

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP



Number:

TP306

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP



Number:

TP306

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No TP307 Sheet 1 of 1	
Project Name: Cleeves Riverside Quarter Development - Ground Investigation		Project No. P25019		Co-ords: 556967E - 657278N Level: 13.56m OD		Date 27/02/2025
Location: Limerick City				Dimensions (m): 1.00 2.70		Scale 1:25
Client: Limerick Twenty Thirty (LTT)				Depth: 2.20m BGL		Logged NS

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
				0.20	13.36		(TOPSOIL) Firm, brown, CLAY.
	0.50	B					(MADE GROUND) Yellowish brown, very clayey very sandy GRAVEL with high cobble content and high boulder content and waste materials (plastic, tiles and red brick fragments). Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are sub-angular to sub-rounded, Limestone lithology and >175mm in diameter. Boulders are sub-angular, Limestone lithology and >700mm in diameter. <i>0.70m - 0.75m: Layer darker in colour.</i>
	0.50	D					
	0.50	ES					
	1.00	B					
	1.00	D					
	1.00	ES					
	2.00	B					
	2.00	D					
	2.00	ES					
				2.20	11.36		End of Pit at 2.200m

Stability: Moderate
Plant: 12t tracked excavator.
Backfill: Arisings.

Groundwater: None encountered.

Remarks: Trial pit terminated at 2.20m bgl, refusal on large boulders.



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		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No TP308 Sheet 1 of 1			
Project Name: Cleeves Riverside Quarter Development - Ground Investigation		Project No. P25019		Co-ords: 556964E - 657270N Level: 13.27m OD		Date 27/02/2025		
Location: Limerick City				Dimensions (m): 1.00 2.60		Scale 1:25		
Client: Limerick Twenty Thirty (LTT)				Depth: 2.25m BGL		Logged NS		
Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
				0.15	13.12		(TOPSOIL) Soft to firm, black, CLAY.	
	0.50 0.50 0.50	B D ES						Light brown, slightly sandy slightly gravelly CLAY with high cobble content and high boulder content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are sub-angular to sub-rounded, Limestone lithology and >180mm in diameter. Boulders are sub-angular, Limestone lithology and >850mm in diameter.
	1.00 1.00 1.00	B D ES						
	2.00 2.00 2.00	B D ES		2.00	11.27			Light brown, silty very sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, sub-angular.
				2.25	11.02		End of Pit at 2.250m	
Stability: Moderate Plant: 12t tracked excavator. Backfill: Arisings.				Groundwater: None encountered.				
Remarks: Trial pit terminated at 2.25m bgl, refusal on large boulders.								



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		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No TP309 Sheet 1 of 1		
Project Name: Cleeves Riverside Quarter Development - Ground Investigation		Project No. P25019		Co-ords: 556978E - 657259N Level: 12.83m OD		Date 28/02/2025	
Location: Limerick City				Dimensions (m): 0.80 2.20		Scale 1:25	
Client: Limerick Twenty Thirty (LTT)				Depth: 2.10m BGL		Logged NS	
Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
	0.10			0.10	12.73		(TOPSOIL) Soft, brown, slightly sandy CLAY. Sand is fine to coarse.
	0.50	B					(MADE GROUND) Brown, very clayey very sandy GRAVEL with high cobble content and high boulder content and waste materials (concrete, plastic, wires). Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are sub-angular to sub-rounded, Limestone lithology and >180mm in diameter. Boulders are sub-angular, Limestone lithology and >400mm in diameter.
	0.50	D					
	0.50	ES					
	1.00	B					
	1.00	D					
1.00	ES						
	2.00	B					
	2.00	D					
	2.00	ES		2.10	10.73		End of Pit at 2.100m
Stability: Moderate Plant: 12t tracked excavator. Backfill: Arisings.					Groundwater: None encountered.		
Remarks: Trial pit terminated at 2.10m bgl, refusal on large boulders.							



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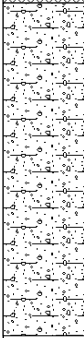


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		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No TP310 Sheet 1 of 1			
Project Name: Cleeves Riverside Quarter Development - Ground Investigation		Project No. P25019		Co-ords: 556988E - 657241N Level: 10.32m OD		Date 24/03/2025		
Location: Limerick City				Dimensions (m): 0.65 1.60		Scale 1:25		
Client: Limerick Twenty Thirty (LTT)				Depth: 1.40m BGL		Logged AO		
Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
				0.20	10.12		CONCRETE.	
				0.30	10.02			(MADE GROUND) Brown, sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse and angular. Brown, very clayey very sandy GRAVEL with high cobble content and low boulder content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are sub-angular to sub-rounded, Limestone lithology and 63-200mm in diameter. Boulders are sub-angular to sub-rounded, Limestone lithology and >200mm in diameter,
	0.50	ES						
	0.50	ES						
	0.80 - 1.20	B						
1.00	D							
				1.40	8.92		End of Pit at 1.400m	
Stability: Good Plant: 3t tracked excavator. Backfill: Arisings.				Groundwater: None encountered.				
Remarks: Trial pit terminated at 1.40m bgl, refusal. Soakaway test carried out.								

Test 1

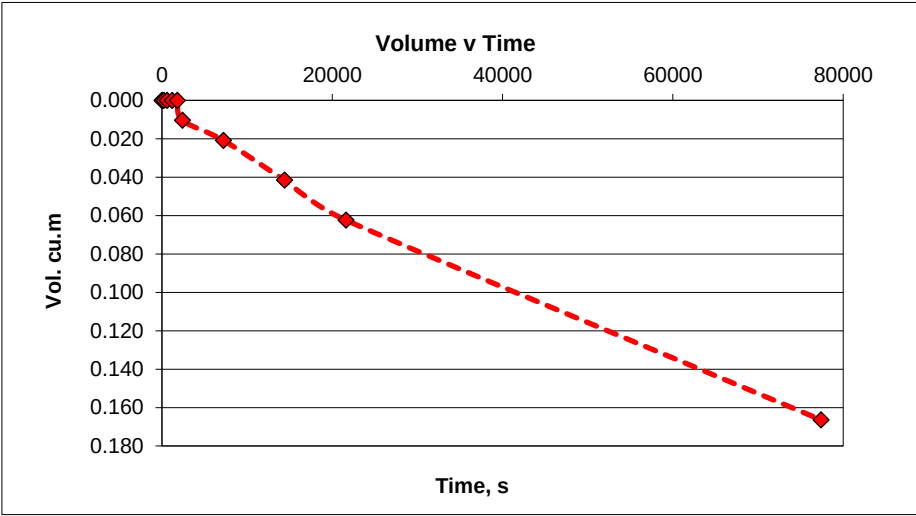
SA TP310

l, m 1.600 b, m 0.650 d, m 1.600
l_base, m 1.600 d_eff, m 0.840
l_eff, m 1.600

Time, min	Measure, m bgl	Time, sec	Depth water, m	Fall, m	Volume
0	0.760	0	0.84	0.00	0.000
1	0.760	60	0.84	0.00	0.000
2	0.760	120	0.84	0.00	0.000
4	0.760	240	0.84	0.00	0.000
10	0.760	600	0.84	0.00	0.000
20	0.760	1200	0.84	0.00	0.000
30	0.760	1800	0.84	0.00	0.000
40	0.770	2400	0.83	0.01	0.010
120	0.780	7200	0.82	0.02	0.021
240	0.800	14400	0.80	0.04	0.042
360	0.820	21600	0.78	0.06	0.062
1290	0.920	77400	0.68	0.16	0.166

Area 1.040 m^2 V_{p75-25 theory} volume 0.4368 m^3
50% Area_eff, a_{p50} 2.930 m^2 V_{p 75 - 25 actual} volume 0.0832 m^3
50% Area_act, a_{p50} 1.400 m^2 t_{p 75- 25 actual} time 40680 s

Infiltration Coefficient f 1.46E-06 ms^-1



NOTES:
Pit assumed unsaturated on first fill



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 Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie				Trial Pit No TP311	
				Sheet 1 of 1	
Project Name: Cleeves Riverside Quarter Development - Ground Investigation			Project No. P25019		Co-ords: 557001E - 657276N Level: 12.43m OD
Location: Limerick City			Dimensions (m): 1.00 2.20		Date 28/02/2025
Client: Limerick Twenty Thirty (LTT)			Depth: 2.60m BGL		Scale 1:25 Logged NS

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description		
	Depth (m)	Type	Results						
				0.05	12.38		(TOPSOIL) Soft to firm, black, CLAY. (MADE GROUND) Grey, very sandy GRAVEL with high cobble content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.		
	0.50 0.50 0.50 0.50	B D ES ES		0.50	11.93			Firm to stiff, reddish brown, slightly gravelly slightly sandy SILT. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.	1
	1.00 1.00 1.00	B D ES		1.20	11.23			Firm to stiff, greyish brown, slightly sandy gravelly CLAY with high cobble content and high boulder content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are sub-rounded, Limestone lithology and >180mm in diameter. Boulders are sub-angular to rounded, Limestone lithology and >290mm in diameter.	2
	2.00 2.00 2.00	B D ES		2.60	9.83				3
	End of Pit at 2.600m							4	
								5	

Stability: Moderate Plant: 12t tracked excavator. Backfill: Arisings.	Groundwater: None encountered.
Remarks: Trial pit terminated at 2.60m bgl, refusal on large boulders.	



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		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No TP312 Sheet 1 of 1	
Project Name: Cleeves Riverside Quarter Development - Ground Investigation		Project No. P25019	Co-ords: 556995E - 657262N Level: 12.66m OD		Date 28/02/2025	
Location: Limerick City			Dimensions (m): 0.00 1.90		Scale 1:25	
Client: Limerick Twenty Thirty (LTT)			Depth: 2.20m BGL		Logged NS	

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
	0.10			0.10	12.56		(TOPSOIL) Firm, dark brown, sandy CLAY. Sand is fine to coarse.	
	0.50	B					Reddish brown, very silty very sandy GRAVEL with low cobble content and low boulder content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are sub-angular to sub-rounded, Limestone lithology and >120mm in diameter. Boulders are sub-angular, Limestone lithology and >270mm in diameter.	
	0.50	D						
	0.50	ES						
	1.00	B		0.90	11.76		Greyish brown, very silty very sandy GRAVEL with medium cobble content and high boulder content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are sub-angular to sub-rounded, Limestone lithology and 63-200mm in diameter. Boulders are sub-angular to sub-rounded, Limestone lithology and 200-720mm in diameter.	1
	1.00	D						
	1.00	ES						
	2.00	B						2
	2.00	D						
	2.00	ES		2.20	10.46		End of Pit at 2.200m	
								3
								4
								5

Stability: Moderate Plant: 12t tracked excavator. Backfill: Arisings.		Groundwater: None encountered.	
Remarks: Trial pit terminated at 2.20m bgl, refusal on large boulders.			



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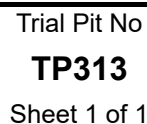


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Date
28/02/2025

Scale
1:25

Logged
NS

Remarks: Trial pit terminated at 1.80m bgl, refusal on large boulders.



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Number:

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				Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie				Trial Pit No TP314 Sheet 1 of 1	
Project Name: Cleeves Riverside Quarter Development - Ground Investigation				Project No. P25019		Co-ords: 557007E - 657253N Level: 11.87m OD		Date 28/02/2025	
Location: Limerick City						Dimensions (m): 2.60 1.00		Scale 1:25	
Client: Limerick Twenty Thirty (LTT)						Depth: 2.00m BGL		Logged NS	
Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description		
	Depth (m)	Type	Results						
	0.10			0.10	11.77		Soft to firm, brown, slightly sandy gravelly CLAY with high organic content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.		
	0.50	B		0.50	11.37		Firm to stiff, brown, slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.		
	0.50	D							
	0.50	ES							
	1.00	B					Brown, very clayey very sandy GRAVEL with low cobble content and medium boulder content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are sub-angular to sub-rounded, Limestone lithology and >140mm in diameter.		
	1.00	D					Cobbles are sub-angular to sub-rounded, Limestone lithology and >250mm in diameter.		
	1.00	ES							
	2.00	B		2.00	9.87		End of Pit at 2.000m		
	2.00	D							
	2.00	ES							
Stability: Moderate Plant: 12t tracked excavator. Backfill: Arisings.									
Groundwater: None encountered.									
Remarks: Trial pit terminated at 2.00m bgl, refusal on presumed bedrock.									



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		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie				Trial Pit No TP315 Sheet 1 of 1	
Project Name: Cleeves Riverside Quarter Development - Ground Investigation		Project No. P25019		Co-ords: 556951E - 657216N Level: 5.54m OD		Date 25/03/2025	
Location: Limerick City				Dimensions (m): 0.80 2.50		Scale 1:25	
Client: Limerick Twenty Thirty (LTT)				Depth: 2.40m BGL		Logged AO	

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
				0.20	5.34		CONCRETE.	
	0.50	ES		0.40	5.14		(MADE GROUND) Grey, sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse and angular.	
	1.00 1.00 - 1.50	ES B					(MADE GROUND) Light brown, sandy gravelly COBBLES & BOULDERS with construction waste and occasional brick fragments. Sand is fine to coarse. Gravel is fine to coarse and angular. Cobbles are angular, Limestone lithology and 63-200mm in diameter. Boulders are angular, Limestone lithology and 200-500mm in diameter.	1
	2.00	ES						2
				2.40	3.14		End of Pit at 2.400m	3
								4
								5

Stability: Poor Plant: 9t tracked excavator. Backfill: Arisings, leanmix & tar.		Groundwater: None encountered.
Remarks: Trial pit terminated at 2.40m bgl, refusal on suspected Limestone bedrock. Old wall uncovered along boundary of pit.		



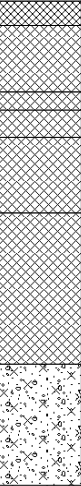
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				Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie				Trial Pit No TP316 Sheet 1 of 1	
Project Name: Cleeves Riverside Quarter Development - Ground Investigation				Project No. P25019		Co-ords: 556887E - 657156N Level: 4.53m OD		Date 26/03/2025	
Location: Limerick City						Dimensions (m): 0.95 2.30		Scale 1:25	
Client: Limerick Twenty Thirty (LTT)						Depth: 1.60m BGL		Logged AO	

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description		
	Depth (m)	Type	Results						
				0.08	4.45		Bituminous surfacing.	1	
							(MADE GROUND) Clause 804 or similar. Grey, sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse and angular.		
				0.30	4.23		Old bricks (suspected old yard surface).		
				0.36	4.17		(MADE GROUND) Grey, GRAVEL. Gravel is fine to coarse and sub-angular to sub-rounded.		
	0.50	ES		0.45	4.08		(MADE GROUND) Greyish brown, clayey very sandy GRAVEL with many brick and mortar fragments. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular.		
	0.50 - 0.70	B					(MADE GROUND) Black, slightly gravelly silty SAND with occasional brick fragments. Sand is fine to coarse.		
	0.80 - 1.20	B		0.70	3.83				
	1.00	D							
			1.00						
			1.20 - 1.60	B		1.20	3.33		
			1.50	D		1.60	2.93		
End of Pit at 1.600m								2	
								3	
								4	
								5	

Stability: Moderate Plant: 9t tracked excavator. Backfill: Macadam.				Groundwater: None encountered.			
Remarks: Trial pit terminated at 1.60m bgl, refusal on suspected bedrock.							



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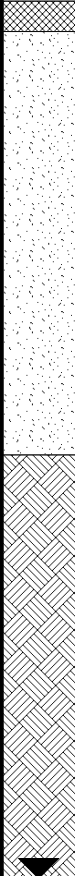
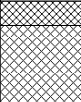
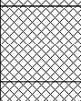
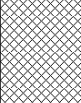
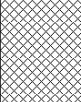
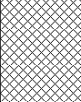
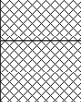
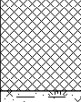
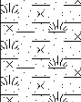
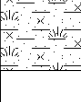
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				Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie				Trial Pit No TP317 Sheet 1 of 1	
Project Name: Cleeves Riverside Quarter Development - Ground Investigation				Project No. P25019		Co-ords: 556908E - 657104N Level: 3.90m OD		Date 26/03/2025	
Location: Limerick City						Dimensions (m): 0.00 2.40		Scale 1:25	
Client: Limerick Twenty Thirty (LTT)						Depth: 2.90m BGL		Logged AO	

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description		
	Depth (m)	Type	Results						
				0.08	3.82		Bituminous surfacing.	1	
				0.35	3.55				(MADE GROUND) Grey, sandy GRAVEL. Sand is fine to coarse. Gravel is fine to medium and sub-angular to sub-rounded.
				0.60	3.30				
	0.80 - 1.20	B					(MADE GROUND) Brownish grey, silty sandy GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse and angular. Cobbles are angular, Limestone lithology and 63-200mm in diameter.		
	1.00	D							0.60m - 1.80m: Slight hydrocarbon odour present.
	1.00	ES							
	1.50	ES							
	1.80 - 2.20	B		1.80	2.10				(MADE GROUND) Brown, slightly sandy gravelly CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse and angular. Cobbles are angular, Limestone lithology and 63-200mm in diameter.
	2.00	D							
	2.00	ES							
2.50	D		2.30	1.60			Soft, dark grey, slightly gravelly slightly sandy organic CLAY with low cobble content. Sand is fine to medium. Cobbles are sub-rounded, Limestone lithology and 63-200mm in diameter.		
2.50	ES								
2.50 - 2.90	B								
			2.90	1.00					
									
									
									
									



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		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No TP318 Sheet 1 of 1		
Project Name: Cleeves Riverside Quarter Development - Ground Investigation		Project No. P25019		Co-ords: 556933E - 657121N Level: 4.26m OD		Date 26/03/2025	
Location: Limerick City				Dimensions (m): 2.10 0.90		Scale 1:25	
Client: Limerick Twenty Thirty (LTT)				Depth: 0.70m BGL		Logged AO	
Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
    	0.20 - 0.70	B		0.08 0.20	4.18 4.06	    	Bituminous surfacing. (MADE GROUND) Clause 804 or similar. Dark grey, sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. (MADE GROUND) Greyish brown, silty very sandy GRAVEL with low cobble content and occasional metal brick and concrete fragments. Sand is fine to coarse. Gravel is fine to coarse and angular. Cobbles are angular, Limestone lithology and 63-200mm in diameter. End of Pit at 0.700m
	0.50	ES		0.70	3.56		
1 2 3 4 5							
Stability: Moderate Plant: 9t tracked excavator. Backfill: Macadam.					Groundwater: None encountered.		
Remarks: Trial pit terminated at 0.70m bgl due to wall.							



Number:

TP318

Project
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Engineer

Cleeves Riverside Quarter
P25019
ARUP



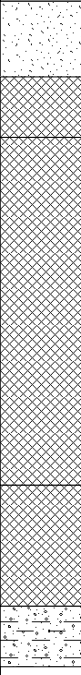
Number:

TP318

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No TP319 Sheet 1 of 1	
Project Name: Cleeves Riverside Quarter Development - Ground Investigation		Project No. P25019		Co-ords: 557000E - 657131N Level: 5.71m OD		Date 24/03/2025
Location: Limerick City				Dimensions (m): 0.70 1.80		Scale 1:25
Client: Limerick Twenty Thirty (LTT)				Depth: 2.20m BGL		Logged AO

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
				0.25	5.46		CONCRETE.	1
	0.50	ES		0.45	5.26		(MADE GROUND) Dark grey, slightly sandy GRAVEL with high cobble content. Sand is fine to coarse. Gravel is fine to coarse and angular. Cobbles are angular, Limestone lithology and 63-200mm in diameter.	
	0.50	ES					(MADE GROUND) Brown, slightly sandy slightly gravelly CLAY with high cobble content and low boulder content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular. Cobbles are angular, Limestone lithology and 63-200mm in diameter. Boulders are angular, Limestone lithology and >200mm in diameter.	
	0.80 - 1.20	B						
	1.00	D						
	1.50	ES						
	1.60 - 2.00	B		1.60	4.11		(MADE GROUND) Dark grey, slightly gravelly slightly sandy organic CLAY. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.	
	1.80	D						
	1.80	ES						
	2.10	D		2.00	3.71		Firm, orange brown, slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to medium and sub-angular to sub-rounded.	
			2.20	3.51	End of Pit at 2.20m			
								3
								4
								5

Stability: Poor Plant: 9t tracked excavator. Backfill: Arisings and Concrete.		Groundwater: None encountered.
Remarks: Trial pit terminated at 2.20m, refusal on suspected bedrock. Soakaway test carried out.		

P25019

Cleeves

24/03/2025

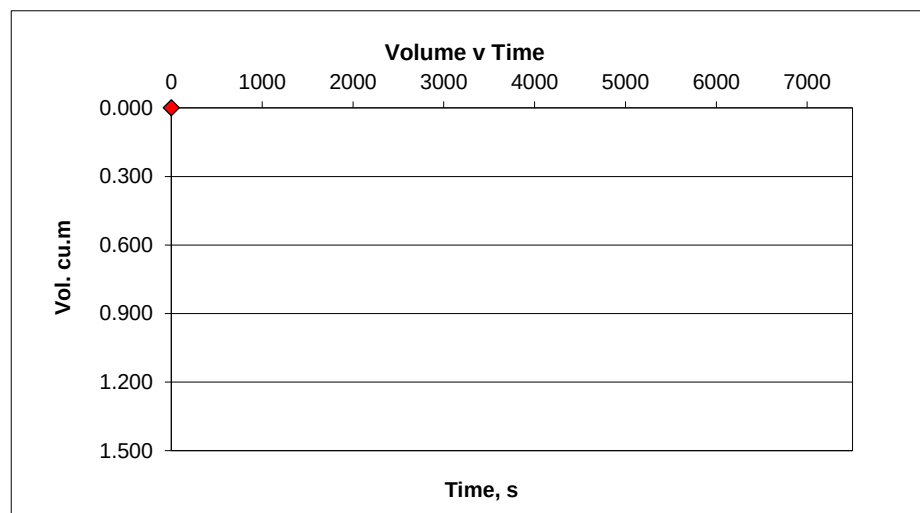
Test 1

SA TP319

l, m 1.800 b, m 0.700 d, m 1.600
 l_base, m 2.100 d_eff, m 0.300
 l_eff, m 2.100

Time, min	Measure, m bgl	Time, sec	Depth water, m	Fall, m	Volume
0.0	1.30	0	0.30	0.00	0.000
0.5	1.5	30	0.10	0.20	0.294

Area 1.470 m² $V_{p75-25 \text{ theory}}$ volume 0.2205 m³
 50% Area_eff, a_{p50} 2.310 m² $V_{p75-25 \text{ actual}}$ volume 0.0000 m³
 50% Area_act, a_{p50} 1.970 m² $t_{p75-25 \text{ actual}}$ time - s
 Infiltration Coefficient f - ms⁻¹



NOTES:

Could not fill pit above 1.30m bgl.

Pit collapse, walls were unstable once wet. Unable to determine infiltration rate.



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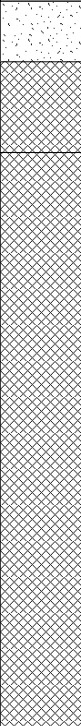


Number:

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		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No TP320 Sheet 1 of 1		
Project Name: Cleeves Riverside Quarter Development - Ground Investigation		Project No. P25019		Co-ords: 556987E - 657098N Level: 4.21m OD		Date 26/03/2025	
Location: Limerick City				Dimensions (m): 2.80 1.40		Scale 1:25	
Client: Limerick Twenty Thirty (LTT)				Depth: 2.40m BGL		Logged AO	
Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
	0.20			0.20	4.01		CONCRETE.
	0.50			0.50	3.71		(MADE GROUND) Dark grey, COBBLES & BOULDERS. Cobbles are angular to sub-angular, Limestone lithology and 63-200mm in diameter. Boulders are angular to sub-angular, Limestone lithology and >200mm in diameter.
	0.60	ES					(Suspected MADE GROUND). Brown, clayey very sandy GRAVEL with medium cobble content and high boulder content. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-rounded. Cobbles are angular to sub-angular, Limestone lithology and 63-200mm in diameter. Boulders are angular to sub-angular, Limestone lithology and 200-600mm in diameter.
	0.80 - 1.20	B					
	1.00 1.00	D ES					
	1.80 - 2.20	B					
	2.00 2.00	D ES					
	2.40			2.40	1.81		End of Pit at 2.40m
1 2 3 4 5							
Stability: Poor Plant: 9t tracked excavator. Backfill: Arisings & Clause 804.					Groundwater: None encountered.		
Remarks: Trial pit terminated at 2.40m bgl, refusal on boulders.							



Number:

TP320

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Engineer

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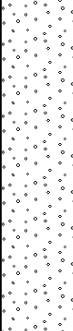
Number:

TP320

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No TP321 Sheet 1 of 1	
Project Name: Cleeves Riverside Quarter Development - Ground Investigation		Project No. P25019		Co-ords: 556988E - 657061N Level: 3.87m OD		Date 26/03/2025
Location: Limerick City				Dimensions (m): 3.00 1.10		Scale 1:25
Client: Limerick Twenty Thirty (LTT)				Depth: 2.40m BGL		Logged AO

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
	0.75	ES		0.40	3.47		(MADE GROUND) Brown, organic slightly sandy slightly gravelly CLAY with occasional pieces of plastic. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular.
							CONCRETE.
							(MADE GROUND) Light greyish white, sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular. High amounts of ash and brick fragments.
							(MADE GROUND) Black, sandy GRAVEL with macadam and glass pieces. Sand is fine to coarse. Gravel is fine to medium and angular to sub-angular.
							(MADE GROUND) Orangey brown, very clayey very sandy GRAVEL with medium cobble content with waste materials (metal, ash, brick). Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular. <i>0.80m - 1.60m: Rusty, burnt metal.</i>
	1.50 1.50 1.50 - 2.00	D ES B					
				2.40	1.47		End of Pit at 2.400m

Stability: Poor Plant: 9t tracked excavator. Backfill: Arisings, gravel and topsoil.	Groundwater: 2.40m: Seepage flow rate.
Remarks: Trial pit terminated at 2.40m bgl, refusal on boulders.	



Number:

TP321

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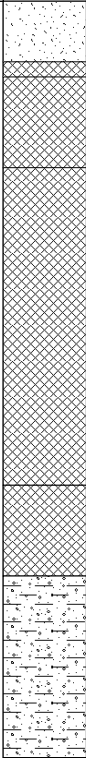
Number:

TP321

Project
Project No
Engineer

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P25019
ARUP

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No TP322 Sheet 1 of 1	
Project Name: Cleeves Riverside Quarter Development - Ground Investigation		Project No. P25019	Co-ords: 557031E - 657139N Level: 5.62m OD		Date 25/03/2025	
Location: Limerick City			Dimensions (m): 0.80 2.30		Scale 1:25	
Client: Limerick Twenty Thirty (LTT)			Depth: 2.50m BGL		Logged AO	

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
				0.20	5.42		Reinforced CONCRETE.	
				0.25	5.37		(MADE GROUND) Grey, sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular.	
	0.50	ES					(MADE GROUND) Dark greyish black, slightly gravelly SAND with occasional ash, glass and brick fragments. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular.	
	0.50	ES					(MADE GROUND) Brown, very clayey very sandy GRAVEL with high cobble content and low boulder content. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular. Cobbles are angular to sub-angular, Limestone lithology and 63-200mm in diameter. Boulders are angular to sub-angular, Limestone lithology and 200-300mm in diameter.	1
	0.80 - 1.20	B						
	1.00	D						
	1.50	ES						
				1.60	4.02		(MADE GROUND) Greyish brown, slightly organic slightly sandy slightly gravelly CLAY with low cobble content and occasional brick fragments. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular. Cobbles are angular to sub-angular, Limestone lithology and 63-200mm in diameter.	2
				1.90	3.72		<i>1.60m - 1.90m: Old surface layer.</i> Firm, brown, slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.	
				2.00				
				2.00 - 2.50				
				2.50	3.12		End of Pit at 2.500m	3
								4
								5

Stability: Moderate Plant: 9t tracked excavator. Backfill: Arisings, leanmix and tar.		Groundwater: None encountered.	
Remarks: Trial pit terminated at 2.50m bgl, refusal on bedrock.			



Number:

TP322

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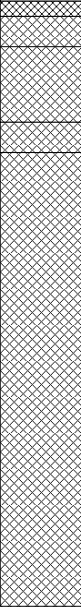
Number:

TP322

Project
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ARUP

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No TP323 Sheet 1 of 1	
Project Name: Cleeves Riverside Quarter Development - Ground Investigation		Project No. P25019		Co-ords: 557050E - 657096N Level: 5.00m OD		Date 26/03/2025
Location: Limerick City				Dimensions (m): 0.80 3.00		Scale 1:25
Client: Limerick Twenty Thirty (LTT)				Depth: 2.00m BGL		Logged AO

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
				0.05	4.95		Bituminous surfacing.	
				0.15	4.85		(MADE GROUND) Dark grey, sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse and angular.	
							(MADE GROUND) Brown, slightly clayey gravelly SAND with occasional brick fragments and ash. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular.	
	0.45	ES		0.40	4.60		(MADE GROUND) Dark grey, slightly sandy slightly gravelly CLAY with ash and brick fragments, Sand is coarse. Gravel is fine to coarse and angular to sub-angular.	
				0.50	4.50		(MADE GROUND) Brown, very sandy very silty GRAVEL with high cobble content and low boulder content and occasional brick and slate fragments. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are sub-angular, Limestone lithology and 63-200mm in diameter. Boulders are sub-angular, Limestone lithology and 200-300mm in diameter.	1
	0.80 - 1.20	B						
	1.00	D						
	1.50	ES						
	2.00	D		2.00	3.00			2
								End of Pit at 2.000m
							3	
							4	
							5	

Stability: Moderate Plant: 3t tracked excavator. Backfill: Arisings, leanmix and tar.		Groundwater: None encountered.
Remarks: Trial pit terminated at 2.00m bgl, refusal on suspected boulders.		



Number:

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		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No TPBH302 Sheet 1 of 1			
Project Name: Cleeves Riverside Quarter Development - Ground Investigation		Project No. P25019		Co-ords: 556833E - 657274N Level: 12.64m OD		Date 24/03/2025		
Location: Limerick City				Dimensions (m): 1.60 0.60		Scale 1:25		
Client: Limerick Twenty Thirty (LTT)				Depth: 0.50m BGL		Logged AO		
Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
	0.06						Bituminous surfacing.	
	0.25						(MADE GROUND) Dark grey, slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.	
	0.50						(MADE GROUND) Brown, slightly sandy gravelly CLAY with low cobble content and occasional brick fragments. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are angular to sub-angular, Limestone lithology and 63-200mm in diameter.	
	0.30 - 0.50	B		0.06	12.58		End of Pit at 0.50m	
	0.40	D		0.25	12.39			
	0.50	ES		0.50	12.14			
Stability: Good Plant: 3t tracked excavator. Backfill: Arisings and macadam. Remarks: Trial pit terminated at 0.50m bgl, refusal on limestone bedrock. Groundwater: None encountered.								



Number:

TPBH302

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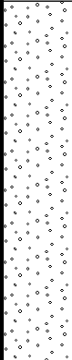
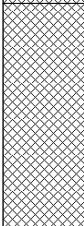


Number:

TPBH302

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Engineer

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		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No FIP301 Sheet 1 of 1			
Project Name: Cleeves Riverside Quarter Development - Ground Investigation		Project No. P25019		Co-ords: 556950E - 657159N Level: 5.80m OD		Date 20/03/2025		
Location: Limerick City				Dimensions (m): 2.10 0.70		Scale 1:25		
Client: Limerick Twenty Thirty (LTT)				Depth: 1.20m BGL		Logged AO		
Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
				0.20	5.60		CONCRETE.	
				0.45	5.35		(MADE GROUND) Black, slightly clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.	
								(MADE GROUND) Soft, brown, slightly sandy slightly gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are sub-angular, Limestone lithology and 63-200mm in diameter.
				1.20	4.60		End of Pit at 1.200m	
1 2 3 4 5								
Stability: Good Plant: 3t tracked excavator. Backfill: Gravel and concrete.					Groundwater: None encountered.			
Remarks: Pit terminated at 1.20m bgl. Refer to DWG P25019 FIP301 for cross sectional detail.								

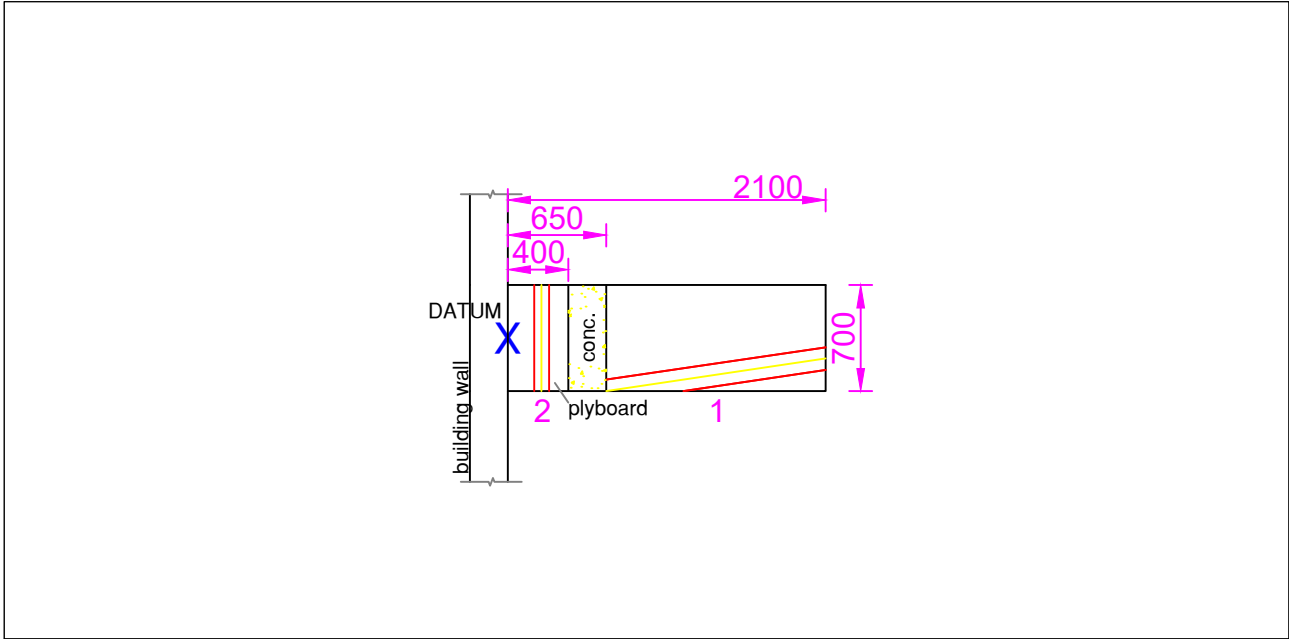


Diagram illustrating the cross-section of a building foundation and storm drain system. The diagram shows a building wall on the left, a concrete foundation, and a storm drain (1) with a suspected storm drain (2) below it. Dimensions are given in millimeters. A datum line is marked with a blue 'X' and a green triangle indicates the ground level (G.L.).

Key dimensions and components:

- Building wall
- DATUM (marked with a blue 'X')
- concrete (conc.)
- plyboard
- Ground Level (G.L.) (marked with a green triangle)
- Storm drain (1) and suspected storm drain (2)
- Dimensions: 120, 200, 300, 800, 1200, 400, 650, 2100, 2

[illegible]

DATUM COORDINATES: EASTING: 556950.2 NORTHING: 657158.9 LEVEL: 5.798mAOD		TRIAL PIT NUMBER: FIP301
KEY: DATUM: X		JOB NAME: Cleeves Riverside Quarter, Limerick.
TRIAL PIT DIMENSIONS: LENGTH: 2.10m WIDTH: 0.70m DEPTH: 1.20m		JOB NUMBER: P25019
STRATA SHOWN ON DETAILED LOG		
DRAWN BY: Gary Curtin	DATE: 24/03/2025	
LOGGED BY: A.O.	DATE: 20/03/2025	
SCALE: AS STATED	APPROVED: GH	REVISION: D01
		



Number:

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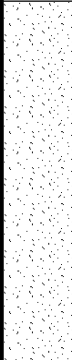
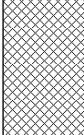


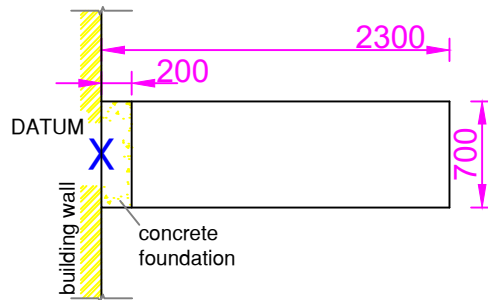
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FIP301

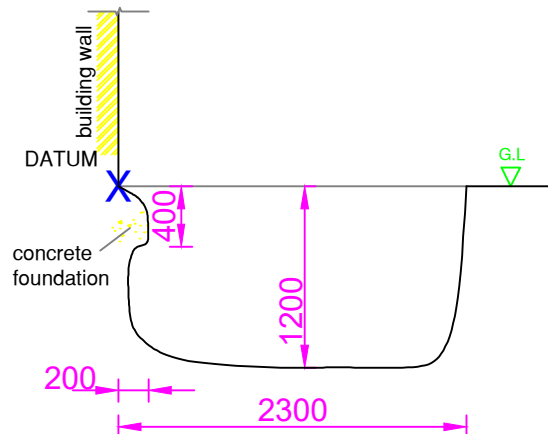
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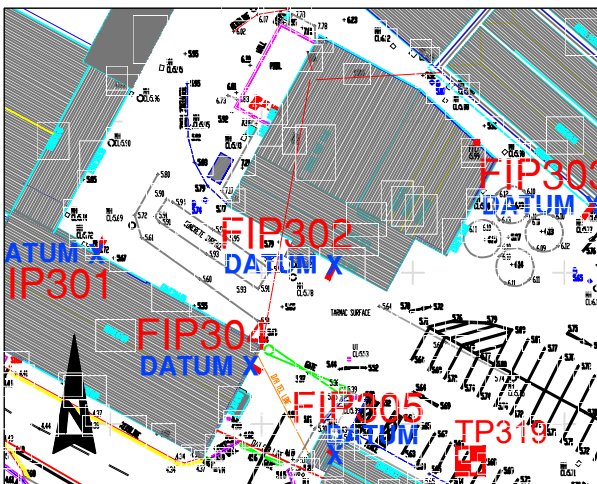
		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No FIP302 Sheet 1 of 1					
Project Name: Cleeves Riverside Quarter Development - Ground Investigation		Project No. P25019		Co-ords: 556982E - 657157N Level: 5.91m OD		Date 21/03/2025				
Location: Limerick City				Dimensions (m): 2.30 0.70		Scale 1:25				
Client: Limerick Twenty Thirty (LTT)				Depth: 1.20m BGL		Logged AO				
Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description			
	Depth (m)	Type	Results							
	0.50	ES		0.03	5.88		Bituminous surfacing.			
				0.13	5.78			CONCRETE.		
				0.60	5.31				(MADE GROUND) Grey, sandy GRAVEL with brick and mortar. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.	
									0.40m - 0.60m: Possible hydrocarbon contamination.	
									(MADE GROUND) Brown, slightly gravelly sandy CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse sub-angular to sub-rounded. Cobbles are sub-angular, Limestone lithology and 63-200mm in diameter.	
			1.20	4.71		End of Pit at 1.200m				
Stability: Moderate		Plant: 3t tracked excavator.		Groundwater: None encountered.						
Backfill: Concrete and macadam.										
Remarks: Pit terminated at 1.20m bgl. Refer to DWG P25019 FIP302 for cross sectional detail.										



TRIAL PIT PLAN, 1:50 ON A4



TRIAL PIT SECTION, 1:50 ON A4



TRIAL PIT LOCATION PLAN, NTS on A4

DATUM COORDINATES: EASTING: 556981.7 NORTHING: 657157.4 LEVEL: 5.907mAOD		TRIAL PIT NUMBER: FIP302
KEY: DATUM: X		JOB NAME: Cleaves Riverside Quarter, Limerick.
TRIAL PIT DIMENSIONS: LENGTH: 2.30m WIDTH: 0.70m DEPTH: 1.20m		JOB NUMBER: P25019
STRATA SHOWN ON DETAILED LOG		DRAWING NUMBER: P25019-FIP302
DRAWN BY: Gary Curtin	DATE: 24/03/2025	
LOGGED BY: A.O.	DATE: 21/03/2025	
SCALE: AS STATED	APPROVED: GH	
	REVISION: D01	



Number:

FIP302

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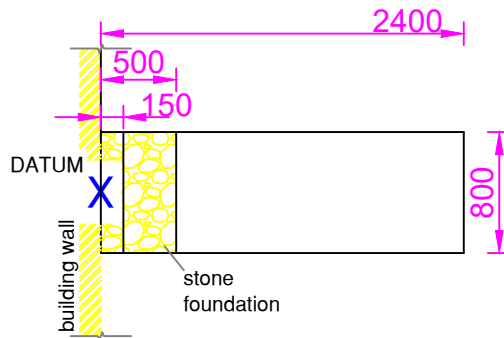
		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie				Trial Pit No FIP303 Sheet 1 of 1	
Project Name: Cleeves Riverside Quarter Development - Ground Investigation		Project No. P25019		Co-ords: 557016E - 657165N Level: 6.01m OD		Date 21/03/2025	
Location: Limerick City				Dimensions (m): 0.80		Scale 1:25	
Client: Limerick Twenty Thirty (LTT)				Depth: 2.40m BGL		Logged AO	

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
Water Strike & Backfill				0.10	5.91	(MADE GROUND)	CONCRETE.
				0.25	5.76		(MADE GROUND). Black, sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.
							(MADE GROUND). Brown, slightly sandy slightly gravelly CLAY with medium cobble content, low boulder content and occasional brick and slate fragments. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are sub-angular to sub-rounded, limestone lithology and 63-200mm in diameter. Boulders are sub-angular to sub-rounded, Limestone lithology and 200-350mm in diameter.
				2.40	3.61		End of Pit at 2.400m

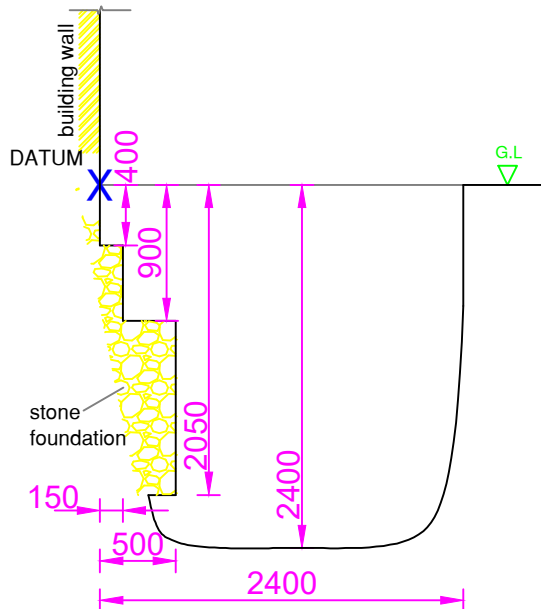
Stability: Good
Plant: 3t tracked excavator.
Backfill: Gravel and concrete.

Groundwater: None encountered.

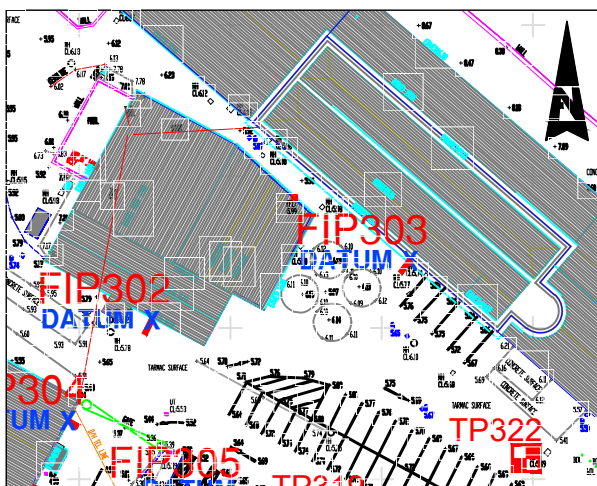
Remarks: Pit terminated at 2.40m bgl. Refer to DWG P25019 FIP303 for cross sectional detail.



TRIAL PIT PLAN, 1:50 ON A4



TRIAL PIT SECTION, 1:50 ON A4



TRIAL PIT LOCATION PLAN, NTS on A4

DATUM COORDINATES:
EASTING: 557015.8
NORTHING: 657165.2
LEVEL: 6.009m AOD

TRIAL PIT NUMBER:
FIP303

JOB NAME:
Cleaves Riverside
Quarter, Limerick.

JOB NUMBER:
P25019

DRAWING NUMBER:
P25019-FIP303

KEY:
DATUM: X

TRIAL PIT DIMENSIONS:
LENGTH: 2.40m
WIDTH: 0.80m
DEPTH: 2.40m

STRATA SHOWN ON DETAILED LOG

DRAWN BY:
Gary Curtin

DATE:
24/03/2025

LOGGED BY:
A.O.

DATE:
21/03/2025

SCALE:
AS STATED

APPROVED:
GH

REVISION:
D01





Number:

FIP303

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

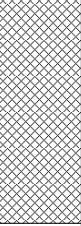


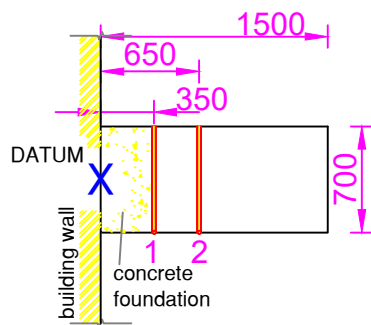
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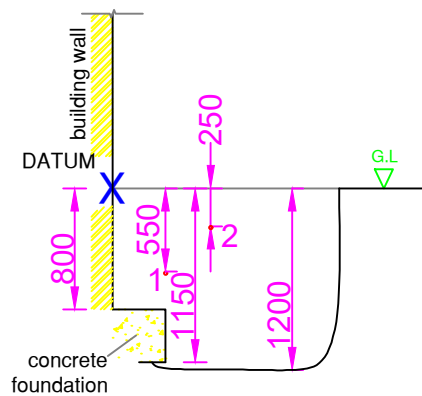
Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
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		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No FIP304 Sheet 1 of 1					
Project Name: Cleeves Riverside Quarter Development - Ground Investigation		Project No. P25019		Co-ords: 556971E - 657144N Level: 5.34m OD		Date 25/03/2025				
Location: Limerick City				Dimensions (m): 1.50 0.70		Scale 1:25				
Client: Limerick Twenty Thirty (LTT)				Depth: 1.20m BGL		Logged AO				
Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description			
	Depth (m)	Type	Results							
				0.25	5.09		Reinforced CONCRETE.		1	
				0.40	4.94			(MADE GROUND) Grey, sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.		
										(MADE GROUND) Brown, slightly sandy slightly gravelly CLAY with low cobble content and occasional brick fragments. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are sub-angular, Limestone lithology and 63-200mm in diameter.
				1.20	4.14		End of Pit at 1.200m		5	
Stability: Good Plant: 3t tracked excavator. Backfill: Arisings.				Groundwater: None encountered.						
Remarks: Pit terminated at 1.20m bgl. Refer to DWG P25019 FIP304 for cross sectional detail.										

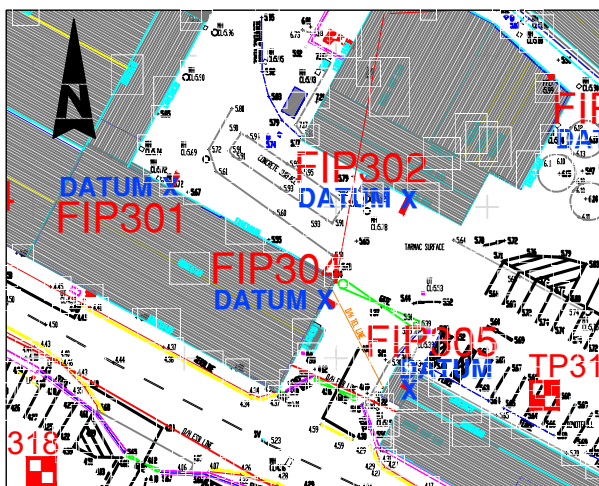


TRIAL PIT PLAN, 1:50 ON A4



1. 25MMØ black PVC pipe, broken
2. 25MMØ black PVC pipe, broken

TRIAL PIT SECTION, 1:50 ON A4



TRIAL PIT LOCATION PLAN, NTS on A4

DATUM COORDINATES:
EASTING: 556970.6
NORTHING: 657144.0
LEVEL: 5.341m AOD

TRIAL PIT NUMBER:
FIP304

JOB NAME:
Cleaves Riverside
Quarter, Limerick.

JOB NUMBER:
P25019

DRAWING NUMBER:
P25019-FIP304

KEY:
DATUM: X

TRIAL PIT DIMENSIONS:
LENGTH: 1.50m
WIDTH: 0.70m
DEPTH: 1.20m

STRATA SHOWN ON DETAILED LOG

DRAWN BY:
Gary Curtin

DATE:
01/04/2025

LOGGED BY:
A.O.

DATE:
25/03/2025

SCALE:
AS STATED

APPROVED:
GH

REVISION:
D01





Number:

FIP304

**Project
Project No
Engineer**

Cleeves Riverside Quarter
P25019
ARUP

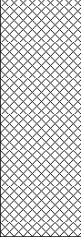


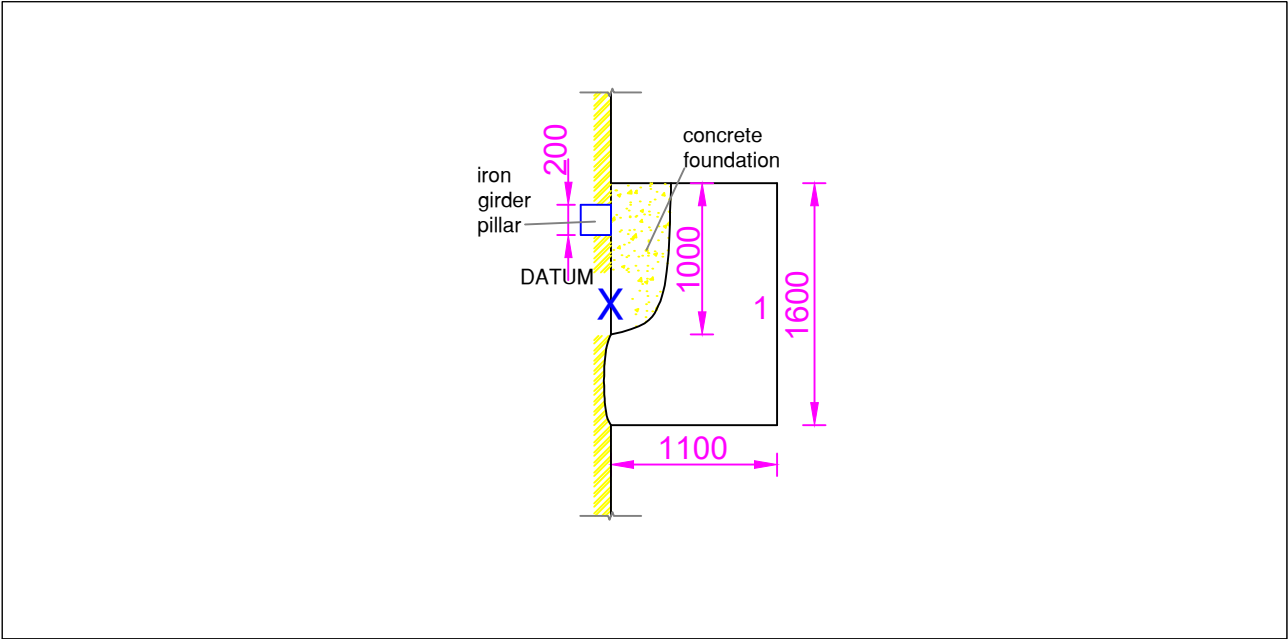
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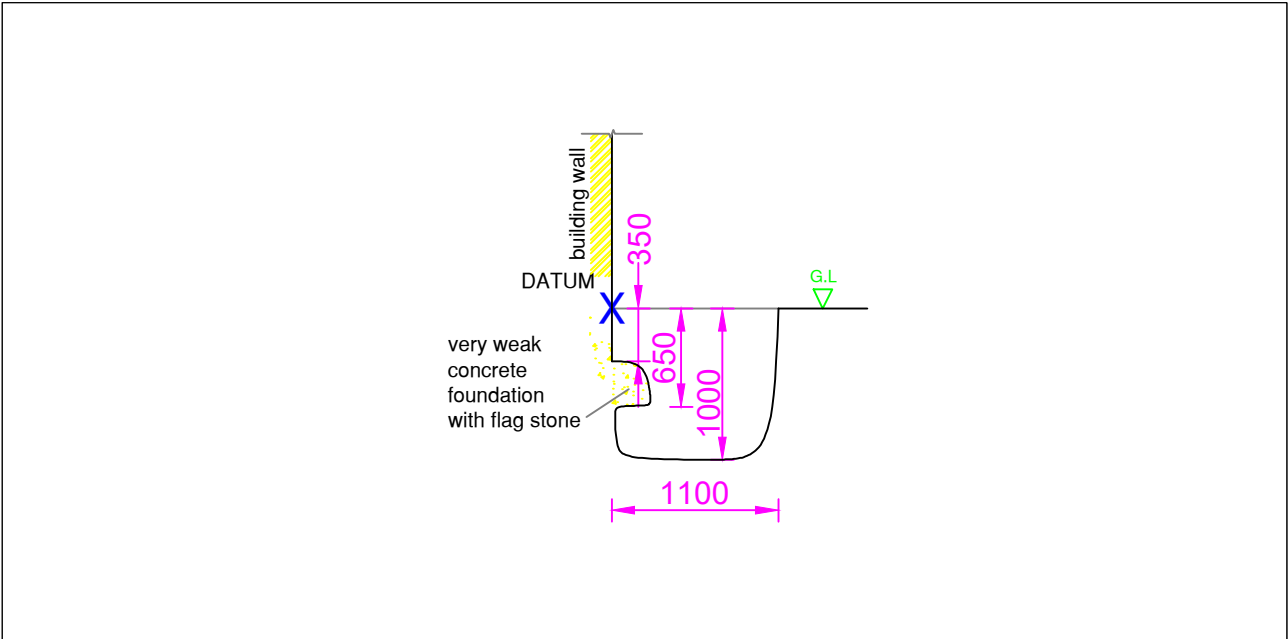
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Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

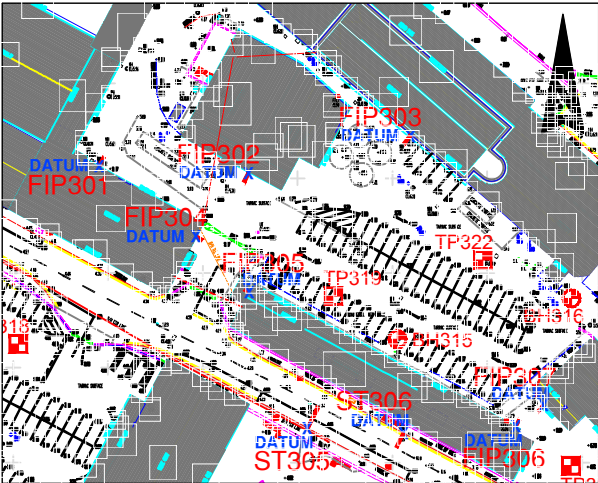
				Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie				Trial Pit No FIP305 Sheet 1 of 1		
Project Name: Cleeves Riverside Quarter Development - Ground Investigation				Project No. P25019		Co-ords: 556982E - 657132N Level: 5.44m OD		Date 25/03/2025		
Location: Limerick City						Dimensions (m): 1.60 1.10		Scale 1:25		
Client: Limerick Twenty Thirty (LTT)						Depth: 1.00m BGL		Logged AO		
Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description			
	Depth (m)	Type	Results							
				0.08	5.36		CONCRETE.			
				0.20	5.24			(MADE GROUND) Grey, sandy GRAVEL. Sand is fine to coarse. Gravel s fine to coarse and sub-angular to sub-rounded.		
								(MADE GROUND) Brown, slightly sandy slightly gravelly CLAY with high cobble content and high boulder content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are sub-angular, Limestone lithology and 63-200mm in diameter. Boulders are sub-angular, Limestone lithology and 63-200mm in diameter.		
				1.00	4.44		End of Pit at 1.000m			
							1			
							2			
							3			
							4			
							5			
Stability: Good Plant: 3t tracked excavator. Backfill: Arisings.						Groundwater: None encountered.				
Remarks: Pit terminated at 1.00m bgl. Refer to DWG P25019 FIP305 for cross sectional detail.										



TRIAL PIT PLAN, 1:50 ON A4



TRIAL PIT SECTION, 1:50 ON A4



TRIAL PIT LOCATION PLAN, NTS on A4

DATUM COORDINATES: EASTING: 556981.8 NORTHING: 657132.2 LEVEL: 5.436mAOD		TRIAL PIT NUMBER: FIP305
KEY: DATUM: X		JOB NAME: Cleevs Riverside Quarter, Limerick.
TRIAL PIT DIMENSIONS: LENGTH: 1.10m WIDTH: 1.60m DEPTH: 1.00m		JOB NUMBER: P25019
STRATA SHOWN ON DETAILED LOG		DRAWING NUMBER: P25019-FIP305
DRAWN BY: Gary Curtin	DATE: 01/04/2025	
LOGGED BY: A.O.	DATE: 25/03/2025	
SCALE: AS STATED	APPROVED: GH	
REVISION: D01		



Number:

FIP305

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

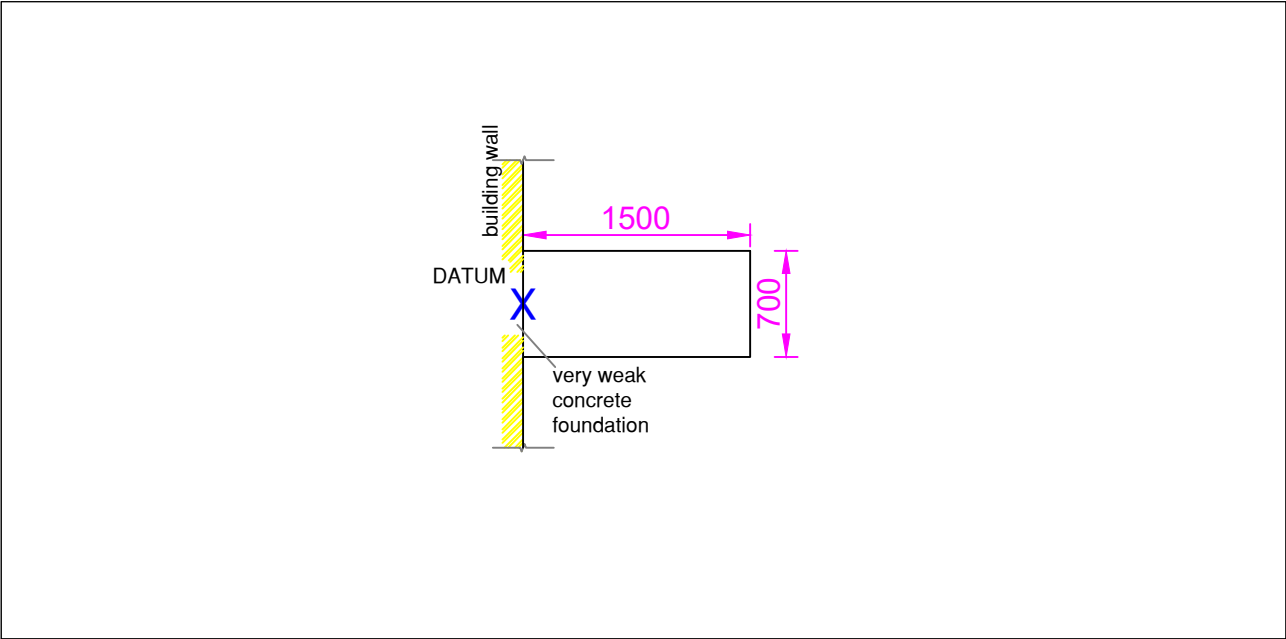


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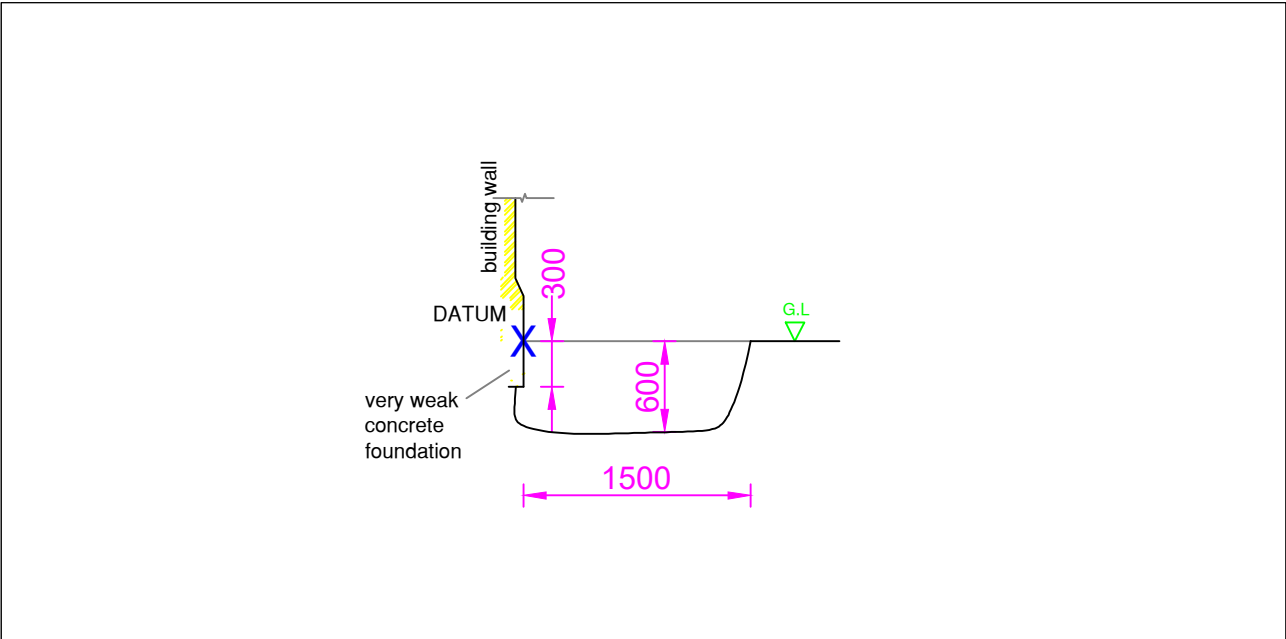
FIP305

Project
Project No
Engineer

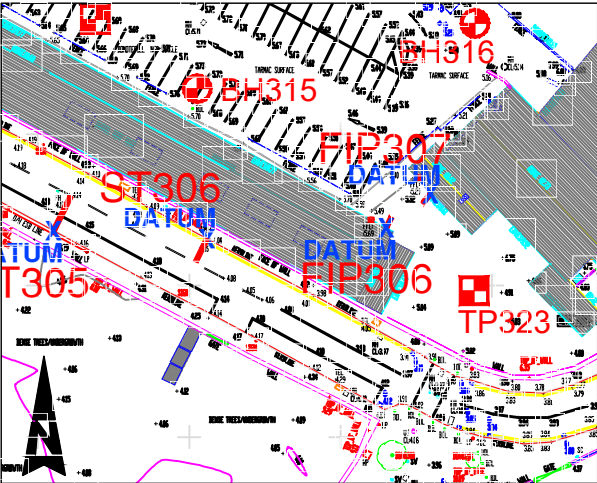
Cleeves Riverside Quarter
P25019
ARUP



TRIAL PIT PLAN, 1:50 ON A4



TRIAL PIT SECTION, 1:50 ON A4



TRIAL PIT LOCATION PLAN, NTS on A4

DATUM COORDINATES: EASTING: 557038.1 NORTHING: 657104.0 LEVEL: 5.405mAOD		TRIAL PIT NUMBER: FIP306
KEY: DATUM: X		JOB NAME: Cleaves Riverside Quarter, Limerick.
TRIAL PIT DIMENSIONS: LENGTH: 1.50m WIDTH: 0.70m DEPTH: 0.60m		JOB NUMBER: P25019
STRATA SHOWN ON DETAILED LOG		DRAWING NUMBER: P25019-FIP306
DRAWN BY: Gary Curtin	DATE: 01/04/2025	
LOGGED BY: A.O.	DATE: 25/03/2025	
SCALE: AS STATED	APPROVED: GH	
	REVISION: D01	

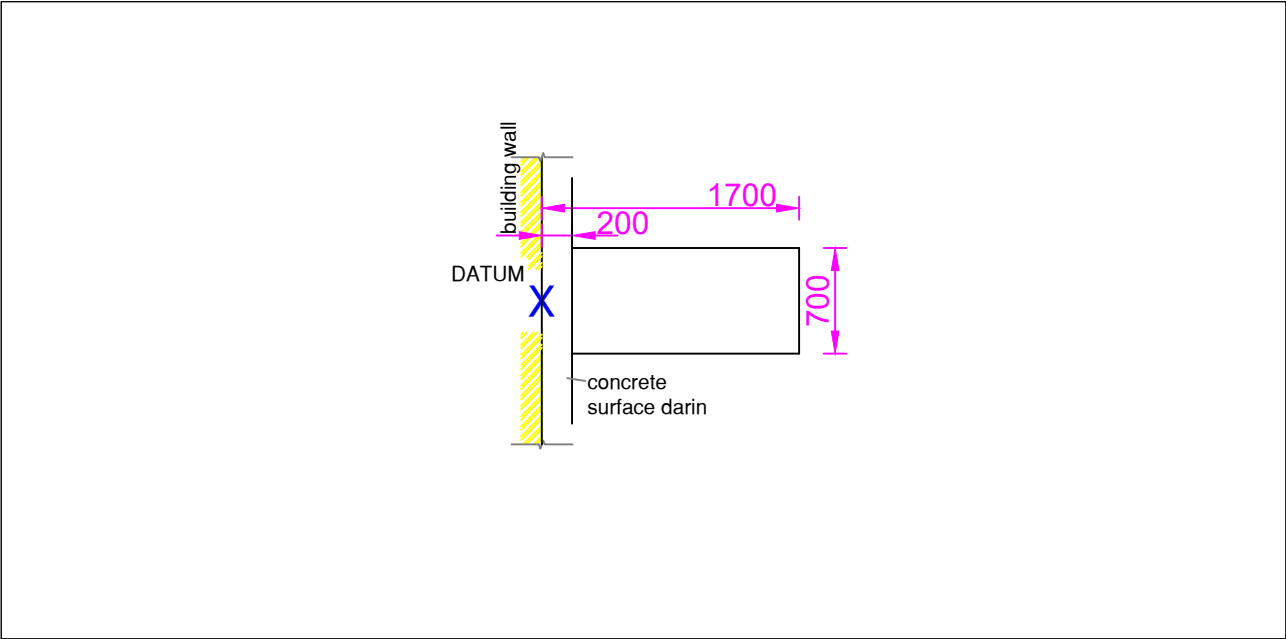


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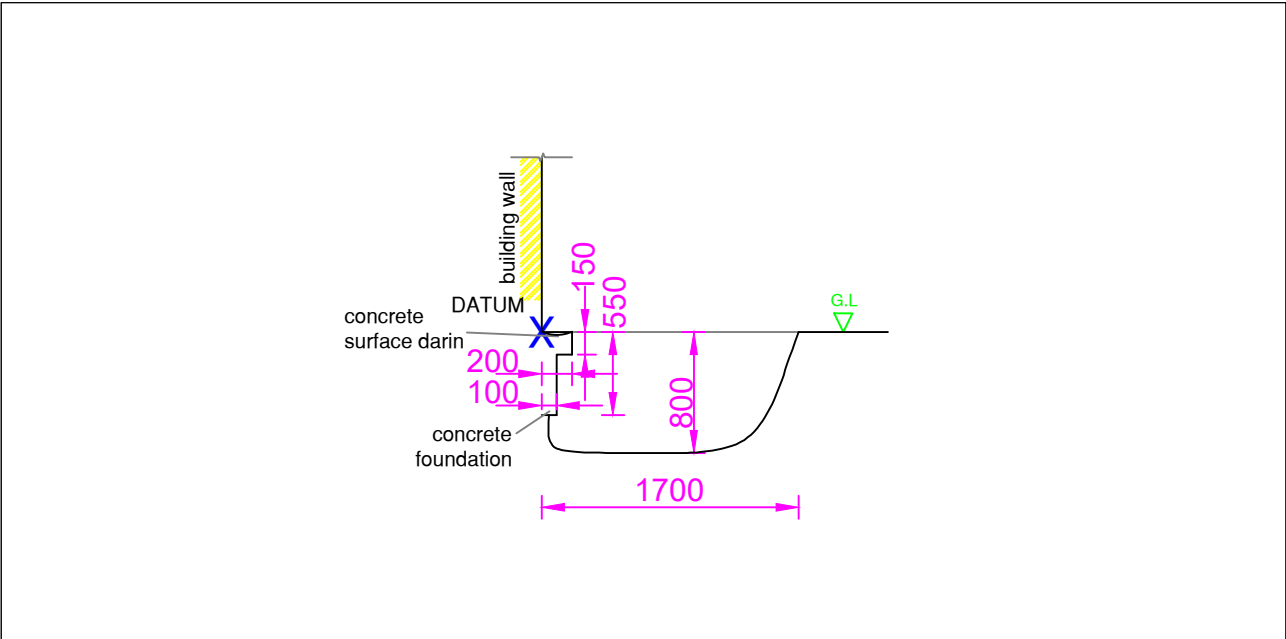
FIP306

Project
Project No
Engineer

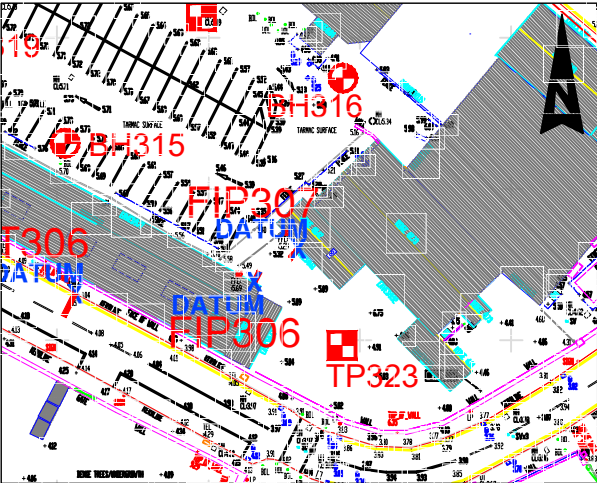
Cleeves Riverside Quarter
P25019
ARUP



TRIAL PIT PLAN, 1:50 ON A4



TRIAL PIT SECTION, 1:50 ON A4



TRIAL PIT LOCATION PLAN, NTS on A4

DATUM COORDINATES: EASTING: 557043.9 NORTHING: 657108.4 LEVEL: 5.244mAOD		TRIAL PIT NUMBER: FIP307
KEY: DATUM: X		JOB NAME: Cleaves Riverside Quarter, Limerick.
TRIAL PIT DIMENSIONS: LENGTH: 1.70m WIDTH: 0.70m DEPTH: 0.80m		JOB NUMBER: P25019
STRATA SHOWN ON DETAILED LOG		DRAWING NUMBER: P25019-FIP307
DRAWN BY: Gary Curtin	DATE: 01/04/2025	
LOGGED BY: A.O.	DATE: 25/03/2025	
SCALE: AS STATED	APPROVED: GH	
REVISION: D01		

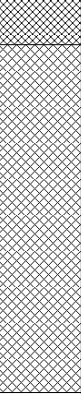


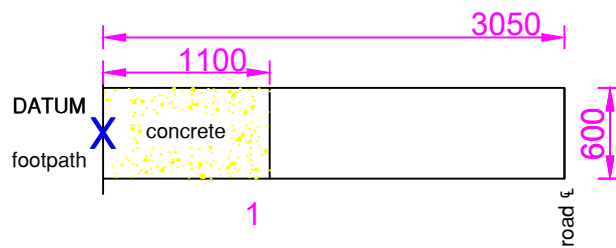
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FIP307

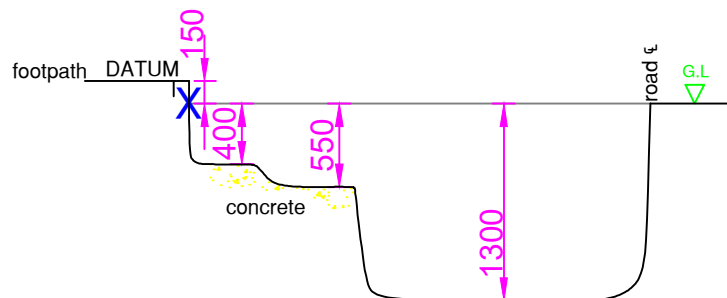
Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

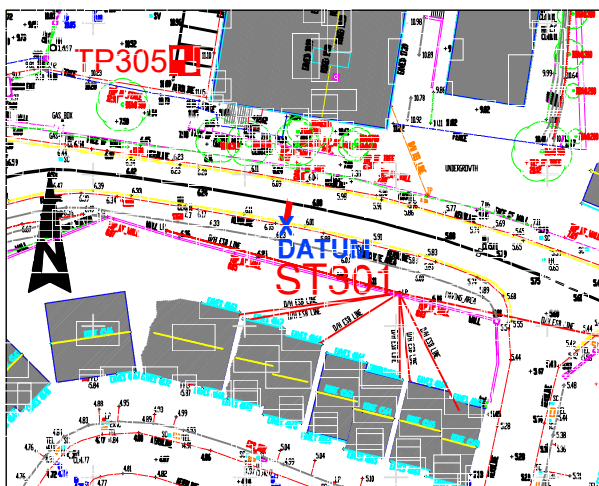
		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No ST301 Sheet 1 of 1			
Project Name: Cleeves Riverside Quarter Development - Ground Investigation		Project No. P25019		Co-ords: 556818E - 657190N Level: 6.09m OD		Date 24/03/2025		
Location: Limerick City				Dimensions (m): 0.60 3.05		Scale 1:25		
Client: Limerick Twenty Thirty (LTT)				Depth: 1.30m BGL		Logged AO		
Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
	0.80 - 1.20	B		0.15	5.94		Bituminous surfacing. <i>0.00m - 0.15m: Two layers of macadam with reinforced geotextile in between.</i>	1
				1.30	4.79		(MADE GROUND) Clause 804 or similar. Dark grey, very clayey very sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.	
							End of Pit at 1.300m	2
								3
								4
								5
Stability: Good Plant: 3t tracked excavator. Backfill: Concrete and macadam.					Groundwater: None encountered.			
Remarks: Trench terminated at 1.30m bgl. Refer to DWG P25019 ST301 For cross sectional detail.								



SLIT TRENCH PLAN, 1:50 ON A4



SLIT TRENCH SECTION, 1:50 ON A4



SLIT TRENCH LOCATION PLAN, NTS on A4

DATUM COORDINATES:
EASTING: 556817.5
NORTHING: 657189.6
LEVEL: 6.093mAOD

SLIT TRENCH NUMBER:

ST301

JOB NAME:

Cleeves Riverside
Quarter, Limerick.

JOB NUMBER:

P25019

DRAWING NUMBER:

P25019-ST301

KEY:

DATUM: X

SLIT TRENCH DIMENSIONS:

LENGTH: 3.05m

WIDTH: 0.60m

DEPTH: 1.30m

STRATA SHOWN ON DETAILED LOG

DRAWN BY:

Gary Curtin

DATE:

25/03/2025

LOGGED BY:

A.O.

DATE:

24/03/2025

SCALE:

AS STATED

APPROVED:

GH

REVISION:

D01





Number:

ST301

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

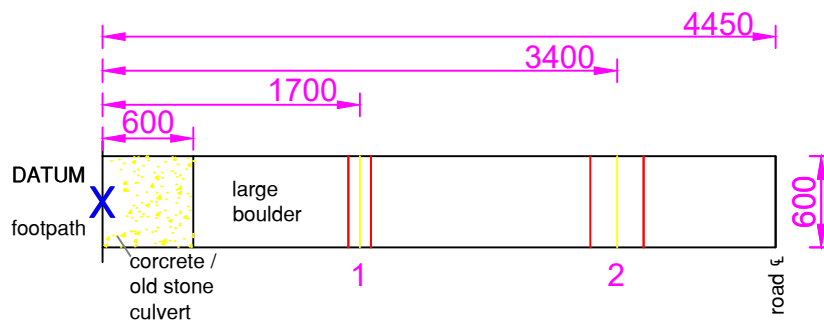


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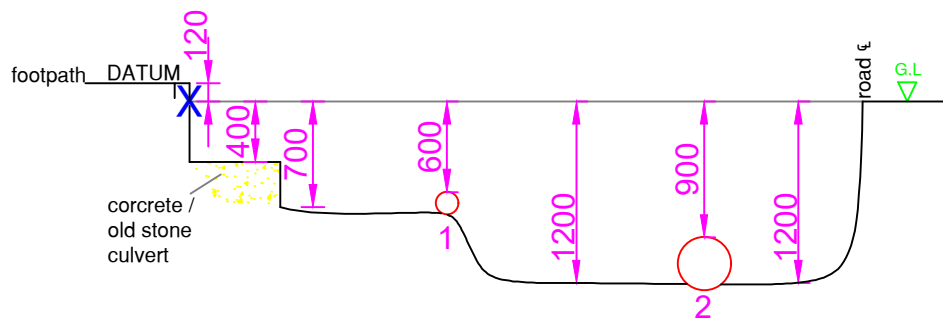
ST301

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

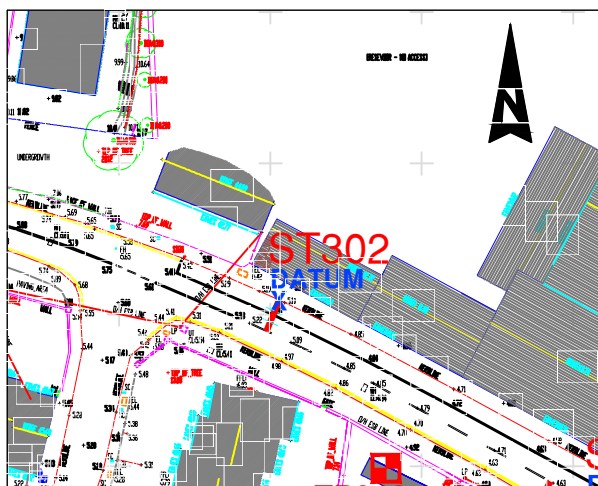


SLIT TRENCH PLAN, 1:50 ON A4



1. 150MMØ metal pipe, suspected gas
2. 350MMØ ductile water main

SLIT TRENCH SECTION, 1:50 ON A4



SLIT TRENCH LOCATION PLAN, 1:1000 ON A4

DATUM COORDINATES: EASTING: 556873.2 NORTHING: 657178.2 LEVEL: 5.153mAOD		SLIT TRENCH NUMBER: ST302
KEY: DATUM: X		JOB NAME: Cleeves Riverside Quarter, Limerick.
SLIT TRENCH DIMENSIONS: LENGTH: 4.45m WIDTH: 0.60m DEPTH: 1.20m		JOB NUMBER: P25019
STRATA SHOWN ON DETAILED LOG		DRAWING NUMBER: P25019-ST302
DRAWN BY: Gary Curtin	DATE: 25/03/2025	
LOGGED BY: A.O.	DATE: 21/03/2025	
SCALE: AS STATED	APPROVED: GH	



Number:

ST302

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
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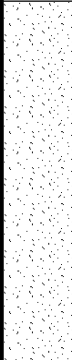
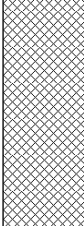


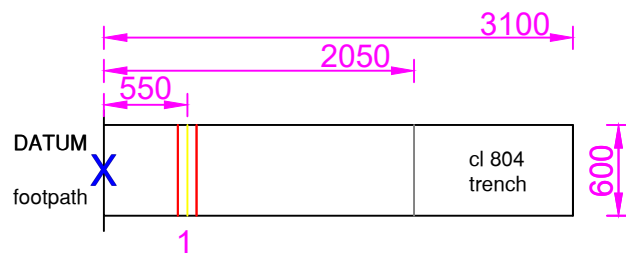
Number:

ST302

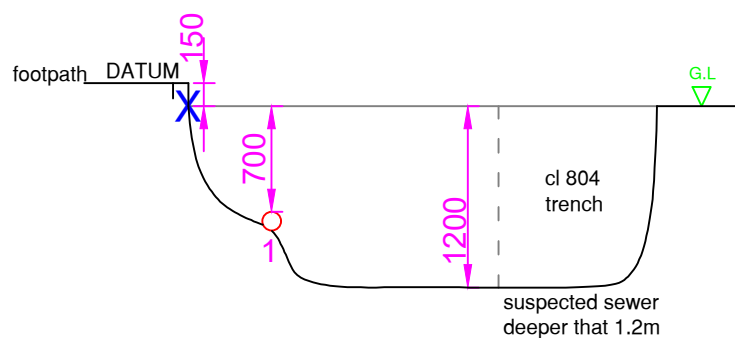
Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
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				Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie				Trial Pit No ST303 Sheet 1 of 1			
Project Name: Cleeves Riverside Quarter Development - Ground Investigation				Project No. P25019		Co-ords: 556908E - 657151N Level: 4.60m OD			Date 20/03/2025		
Location: Limerick City						Dimensions (m): 0.60 3.10			Scale 1:25		
Client: Limerick Twenty Thirty (LTT)						Depth: 1.20m BGL			Logged AO		
Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description				
	Depth (m)	Type	Results								
				0.08	4.52		Bituminous surfacing.				1
							CONCRETE.				
				0.20	4.40						
				0.30	4.30		(MADE GROUND) Grey, very clayey very sandy GRAVEL with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.				
							(Suspected MADE GROUND). Brown, slightly gravelly sandy CLAY with high cobble content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are sub-angular to sub-rounded and 63-200mm in diameter.				
	0.80 - 1.20	B									
	1.00	D									
				1.20	3.40		End of Pit at 1.200m				
											2
											3
											4
											5
Stability: Good Plant: 3t tracked excavator. Backfill: Concrete to macadam.						Groundwater: None encountered.					
Remarks: Trench terminated at 1.20m bgl. Refer to DWG P25019 ST303 For cross sectional detail.											

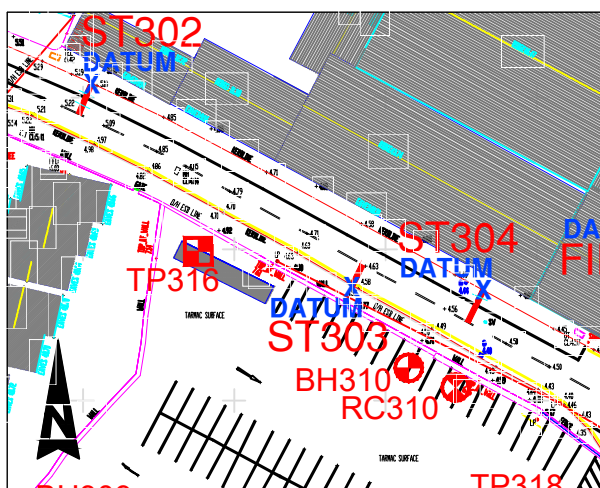


SLIT TRENCH PLAN, 1:50 ON A4



1. 125MMØ white PVC storm water / water main

SLIT TRENCH SECTION, 1:50 ON A4



SLIT TRENCH LOCATION PLAN, 1:1000 ON A4

DATUM COORDINATES: EASTING: 556907.6 NORTHING: 657151.4 LEVEL: 4.597mAOD		SLIT TRENCH NUMBER: ST303
KEY: DATUM: X		JOB NAME: Cleeves Riverside Quarter, Limerick.
SLIT TRENCH DIMENSIONS: LENGTH: 3.10m WIDTH: 0.60m DEPTH: 1.20m		JOB NUMBER: P25019
STRATA SHOWN ON DETAILED LOG		DRAWING NUMBER: P25019-ST303
DRAWN BY: Gary Curtin	DATE: 24/03/2025	
LOGGED BY: A.O.	DATE: 20/03/2025	
SCALE: AS STATED	APPROVED: GH	
REVISION: D01		



Number:

ST303

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Project No
Engineer

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P25019
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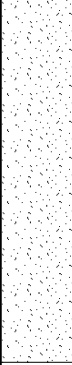


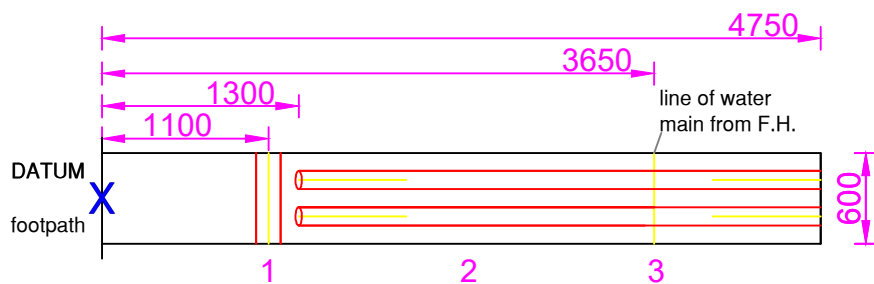
Number:

ST303

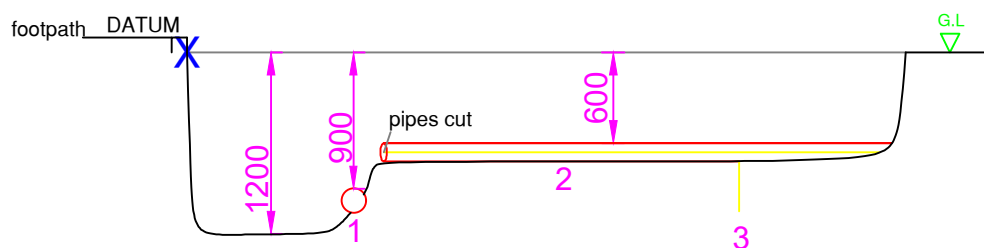
Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
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				Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie				Trial Pit No ST304 Sheet 1 of 1			
Project Name: Cleeves Riverside Quarter Development - Ground Investigation				Project No. P25019		Co-ords: 556925E - 657151N Level: 4.51m OD			Date 20/03/2025		
Location: Limerick City						Dimensions (m): 4.75 0.60			Scale 1:25		
Client: Limerick Twenty Thirty (LTT)						Depth: 1.20m BGL			Logged AO		
Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description				
	Depth (m)	Type	Results								
				0.08	4.43		Bituminous surfacing.				1
							CONCRETE.				
				0.20	4.31		(MADE GROUND) Grey, sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular.				
				0.30	4.21		(Suspected MADE GROUND). Brown, slightly gravelly sandy CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are sub-angular to sub-rounded, Limestone lithology and 63-200mm in diameter.				
	0.80 - 1.20	B									
	1.00	D									2
				1.20	3.31		End of Pit at 1.200m				3
											4
											5
Stability: Good						Groundwater: None encountered.					
Plant: 3t tracked excavator.											
Backfill: Concrete and macadam.											
Remarks: Trench terminated at 1.20m bgl. Refer to DWG P25019 ST304 For cross sectional detail.											

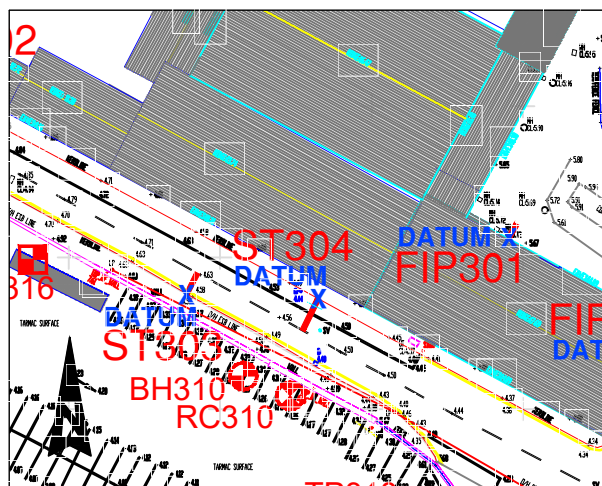


SLIT TRENCH PLAN, 1:50 ON A4



1. 160MM² possibly cast iron
2. 2no.120MMØ cast iron water pipes, "dead"
3. water main line, unexcavated below old pipes

SLIT TRENCH SECTION, 1:50 ON A4



SLIT TRENCH LOCATION PLAN, 1:1000 ON A4

DATUM COORDINATES:
 EASTING: 556926.0
 NORTHING: 657150.9
 LEVEL: 4.513m AOD

SLIT TRENCH NUMBER:

ST304

JOB NAME:

Cleeves Riverside
 Quarter, Limerick.

JOB NUMBER:

P25019

DRAWING NUMBER:

P25019-ST304

KEY:
 DATUM: X

SLIT TRENCH DIMENSIONS:
 LENGTH: 4.75m
 WIDTH: 0.60m
 DEPTH: 1.20m

STRATA SHOWN ON DETAILED LOG

DRAWN BY:
 Gary Curtin

DATE:
 25/03/2025

LOGGED BY:
 A.O.

DATE:
 20/03/2025

SCALE:
 AS STATED

APPROVED:
 GH

REVISION:
 D01





Number:

ST304

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
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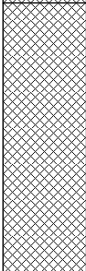


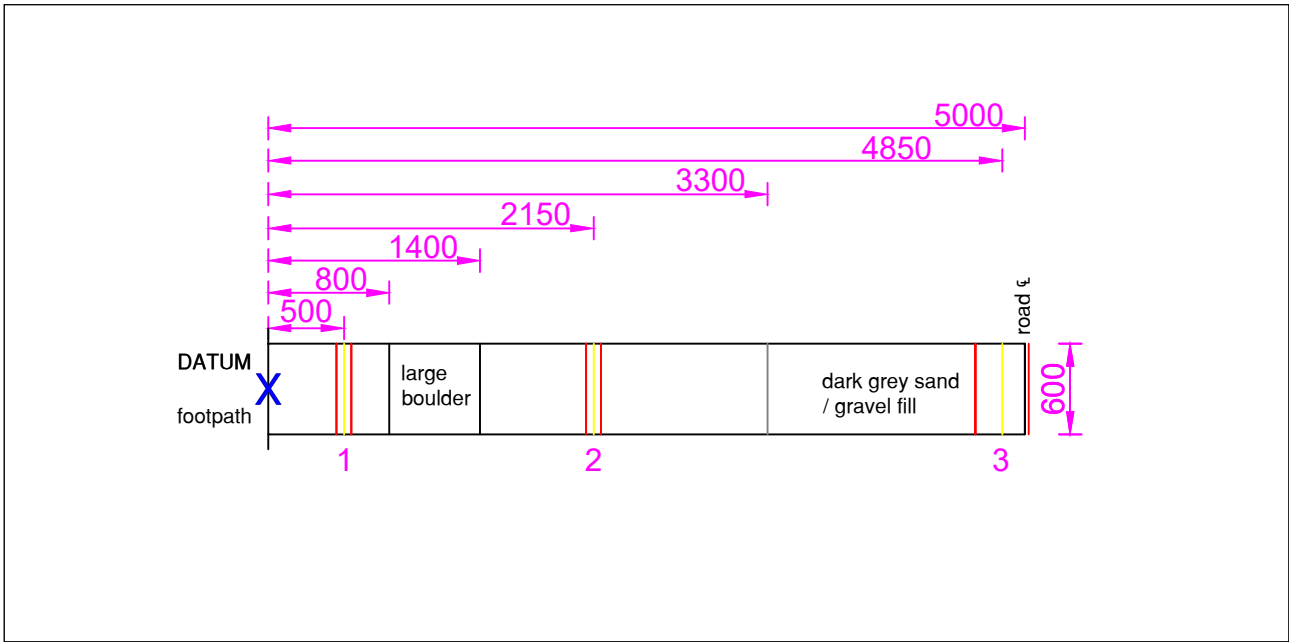
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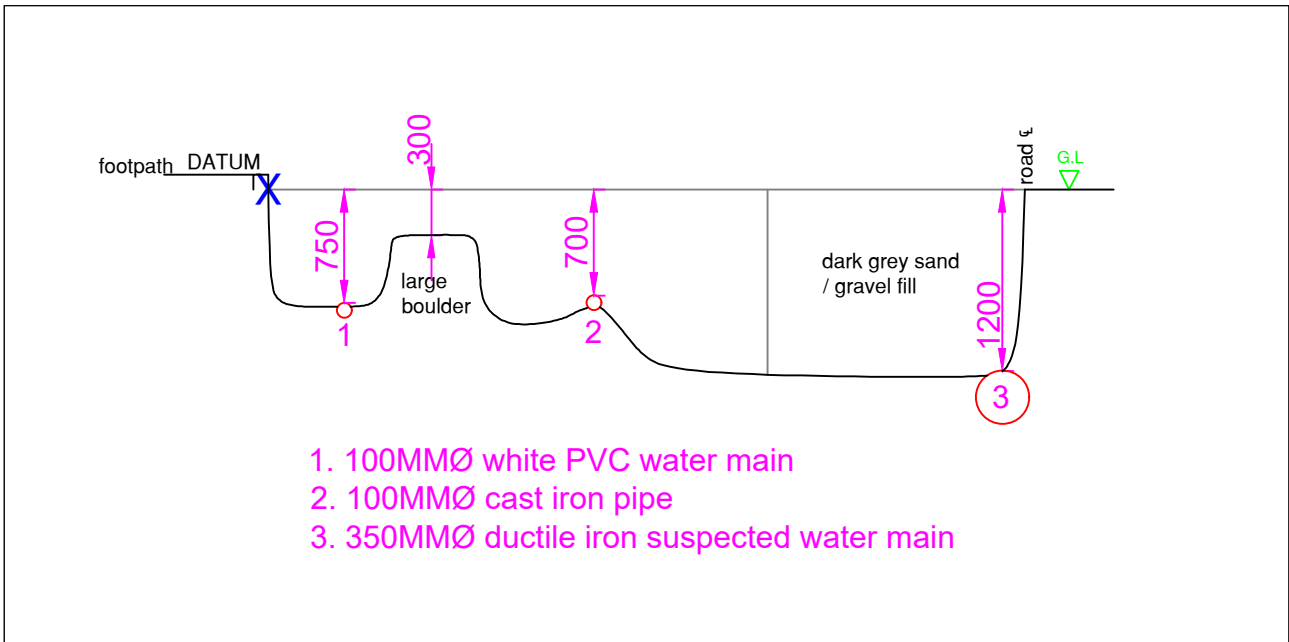
Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

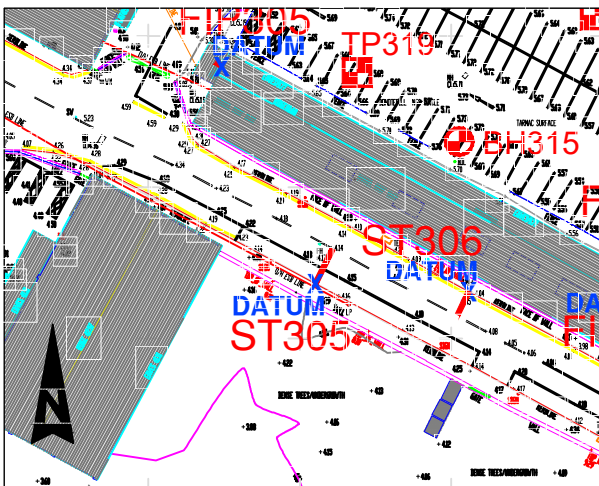
				Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie				Trial Pit No ST305 Sheet 1 of 1		
Project Name: Cleeves Riverside Quarter Development - Ground Investigation				Project No. P25019		Co-ords: 556994E - 657104N Level: 4.12m OD			Date 19/03/2025	
Location: Limerick City						Dimensions (m): 5.00 0.60			Scale 1:25	
Client: Limerick Twenty Thirty (LTT)						Depth: 1.20m BGL			Logged AO	
Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description			
	Depth (m)	Type	Results							
	0.50 - 1.00	B		0.08	4.04		Bituminous surfacing.			
				0.20	3.92		CONCRETE.			
				0.30	3.82		(MADE GROUND) Grey, sandy GRAVEL with high cobble content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.			
				(Suspected MADE GROUND) Brown, slightly sandy slightly gravelly CLAY with high cobble content and high boulder content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.						
				1.20	2.92		End of Pit at 1.200m			
										1
										2
										3
										4
										5
Stability: Good Plant: 3t tracked excavator. Backfill: Concrete and tarmac.						Groundwater: None encountered.				
Remarks: Trench terminated at 1.20m bgl. Refer to DWG P25019 ST305 For cross sectional detail.										



SLIT TRENCH PLAN, 1:50 ON A4



SLIT TRENCH SECTION, 1:50 ON A4



SLIT TRENCH LOCATION PLAN, 1:1000 ON A4

DATUM COORDINATES:		SLIT TRENCH NUMBER:
EASTING: 556994.1		ST305
NORTHING: 657103.5		
LEVEL: 4.124mAOD		
KEY:		JOB NAME:
DATUM: X		Cleeves Riverside Quarter, Limerick.
SLIT TRENCH DIMENSIONS:		JOB NUMBER:
LENGTH: 5.00m		P25019
WIDTH: 0.60m		
DEPTH: 1.20m		
STRATA SHOWN ON DETAILED LOG		
DRAWN BY:	DATE:	DRAWING NUMBER:
Gary Curtin	24/03/2025	P25019-ST305
LOGGED BY:	DATE:	
A.O.	19/03/2025	
SCALE:	APPROVED:	
AS STATED	GH	REVISION:
		D01



Number:

ST305

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

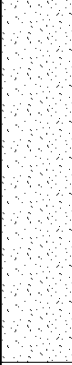


Number:

ST305

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

				Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie				Trial Pit No ST306 Sheet 1 of 1			
Project Name: Cleeves Riverside Quarter Development - Ground Investigation				Project No. P25019		Co-ords: 557014E - 657102N Level: 4.05m OD			Date 19/03/2025		
Location: Limerick City						Dimensions (m): 0.60 3.65			Scale 1:25		
Client: Limerick Twenty Thirty (LTT)						Depth: 1.20m BGL			Logged AO		
Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description				
	Depth (m)	Type	Results								
				0.08	3.97		Bituminous surfacing.				1
							CONCRETE.				
				0.20	3.85		(MADE GROUND) Grey, sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.				
				0.25	3.80		Brown, very clayey very sandy GRAVEL with low cobble content and high boulder content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are sub-angular to sub-rounded, and 63-200mm in diameter. Boulders are sub-angular to sub-rounded, Limestone lithology and 20-400mm in diameter.				
	0.80 - 1.20	B									
	1.00	D									
				1.20	2.85						
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
Stability: Good						Groundwater: None encountered.					
Plant: 3t tracked excavator.											
Backfill: Concrete and macadam.											
Remarks: Trench terminated at 1.20m bgl. Refer to DWG P25019 ST306 For cross sectional detail.											



Number:

ST306

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP

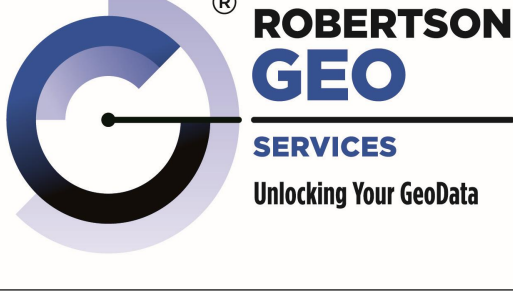


Number:

ST306

Project
Project No
Engineer

Cleeves Riverside Quarter
P25019
ARUP



COMPANY
WELL
FIELD
COUNTRY

Priority Drilling
BH301
Limerick
Ireland

PROBE LIST
OPTV 11481
HRAT 13497
3ACS 12873

LOCATION
EASTING/LONGITUDE
NORTHING/LATITUDE
ELEVATION
PERMANENT DATUM

52.6645288
-8.6389818

Ground Level

- Tadpole

Sine Wave

Major Open Joint/Fracture

Minor Joint/Fracture - Partially Open

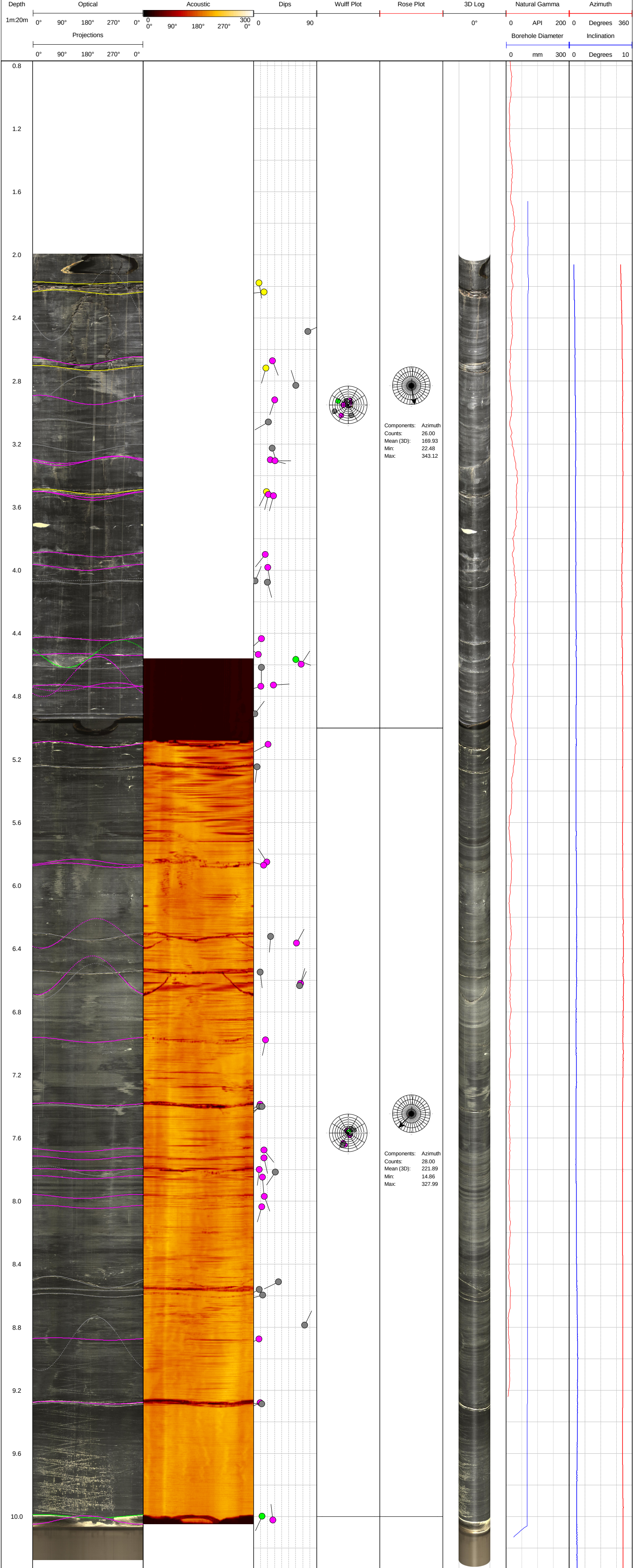
Minor Joint/Fracture - Sealed/Closed

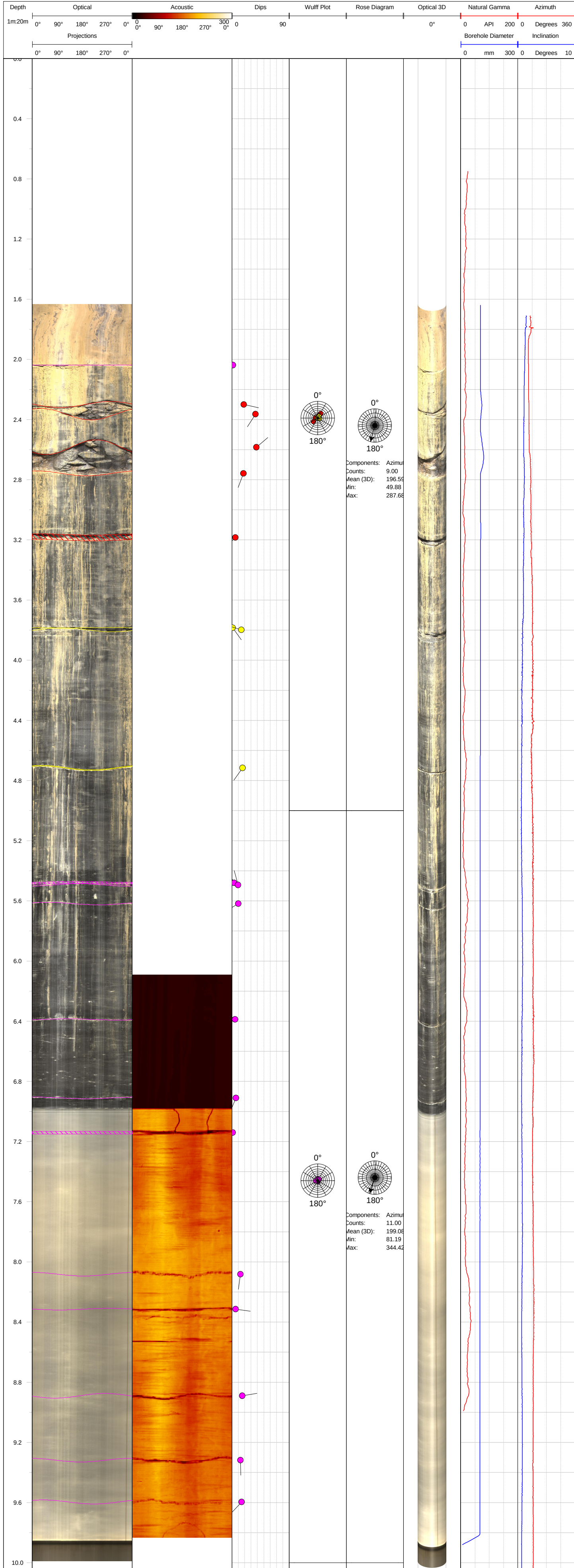
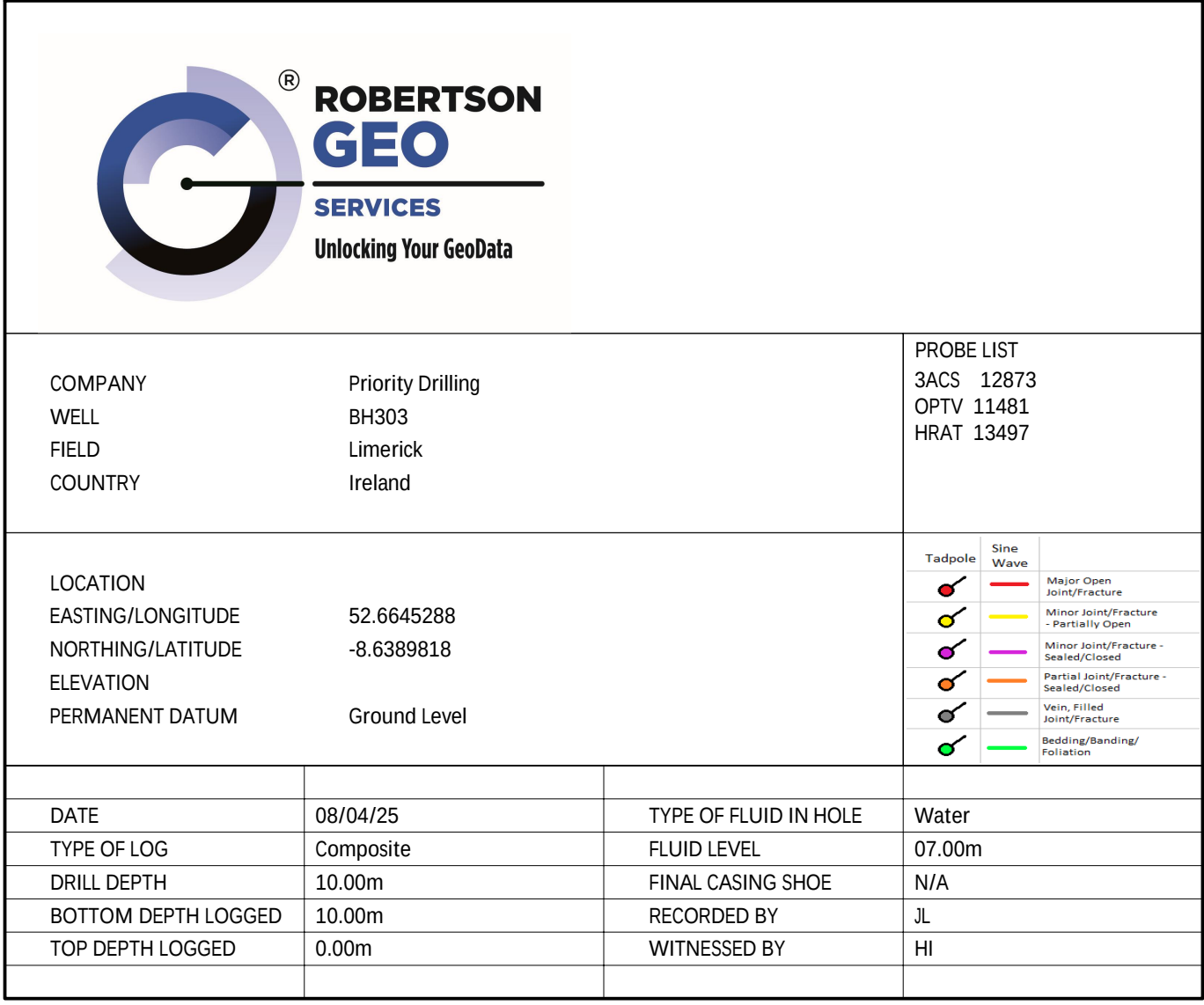
Partial Joint/Fracture - Sealed/Closed

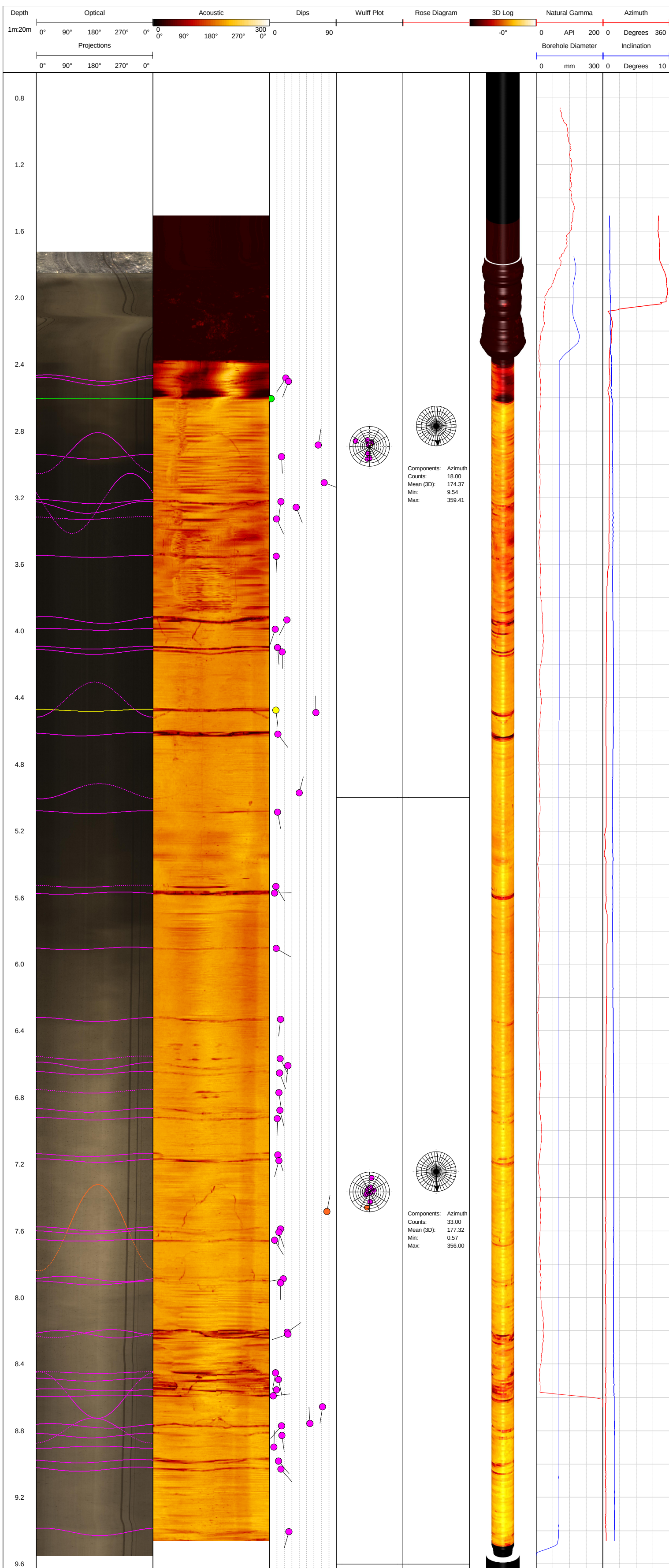
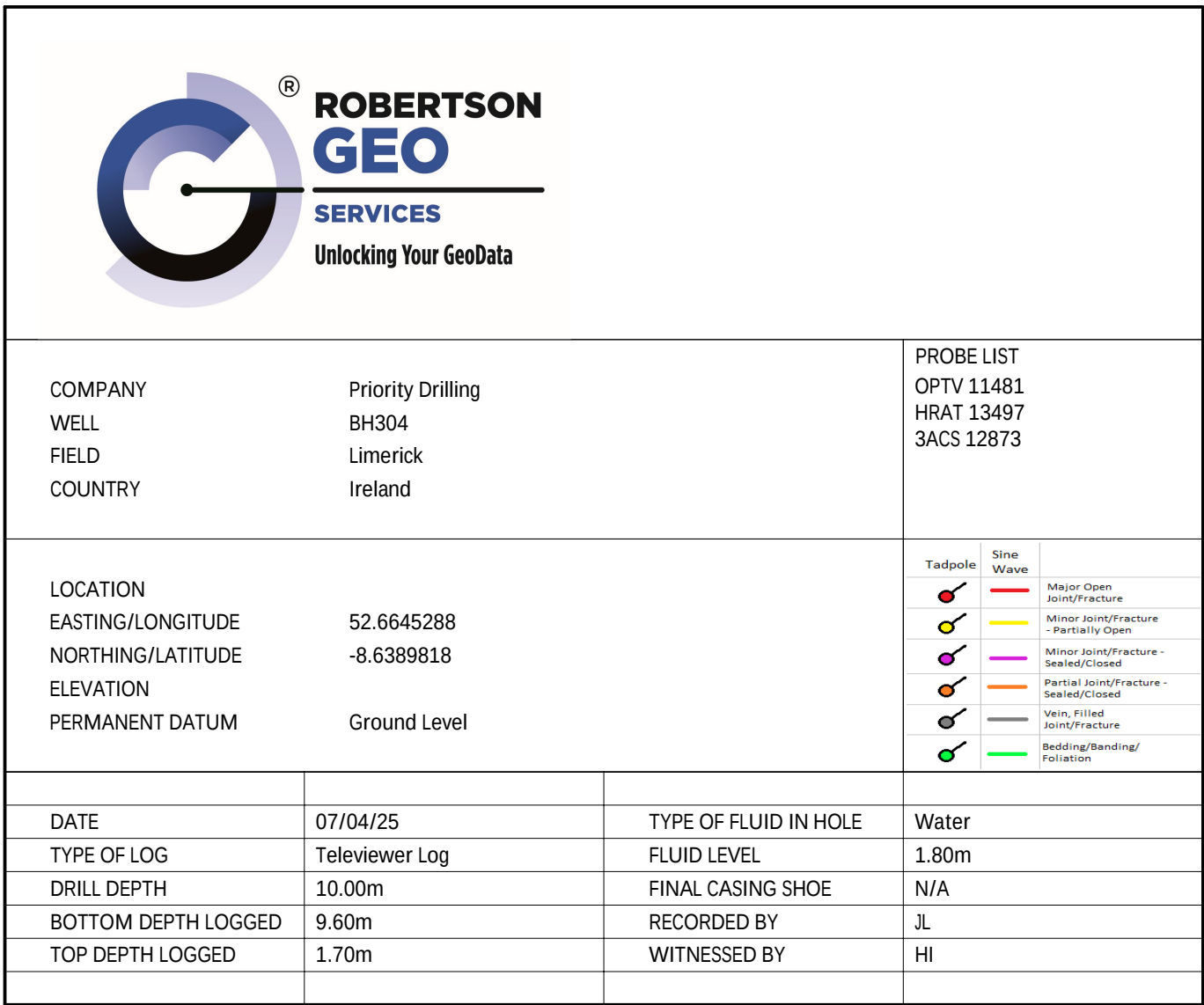
Vein, Filled Joint/Fracture

Bedding/Banding/Foliation
- | | | | |
|---------------------|----------------|-----------------------|-------|
| DATE | 07/04/25 | TYPE OF FLUID IN HOLE | Water |
| TYPE OF LOG | Televiewer Log | FLUID LEVEL | 5.70m |
| DRILL DEPTH | 10.00m | FINAL CASING SHOE | N/A |
| BOTTOM DEPTH LOGGED | 10.00m | RECORDED BY | JL |
| TOP DEPTH LOGGED | 1.80m | WITNESSED BY | HI |

COMPANY WELL FIELD COUNTRY		Priority Drilling BH302 Limerick Ireland	PROBE LIST OPTV 11481 HRAT 13497 3ACS 12873
LOCATION EASTING/LONGITUDE NORTHING/LATITUDE ELEVATION PERMANENT DATUM		52.6645288 -8.6389818 Ground Level	Tadpole Sine Wave Major Open Joint/Fracture Minor Joint/Fracture - Partially Open Minor Joint/Fracture - Sealed/Closed Partial Joint/Fracture - Sealed/Closed Vein, Filled Joint/Fracture Bedding/Banding/ Foliation
DATE	07/04/25	TYPE OF FLUID IN HOLE	Water
TYPE OF LOG	Televiewer Log	FLUID LEVEL	5.10m
DRILL DEPTH	10.00m	FINAL CASING SHOE	N/A
BOTTOM DEPTH LOGGED	10.00m	RECORDED BY	JL
TOP DEPTH LOGGED	1.70m	WITNESSED BY	HI







KEY TO SYMBOLS ON LAB RESULTS

U	Undisturbed Sample
P	Piston Sample
TWS	Thin Wall Sample
B	Bulk Sample - Disturbed
D	Jar Sample - Disturbed
W	Water Sample
pH	Acidity/Alkalinity Index
SO ₃	% - Total Sulphate Content (acid soluble)
SO ₃	g/ltr - Water Soluble Sulphate (Water or 2:1 Aqueous Soil Extract)
+	Calcareous Reaction
Cl	Chloride Content
PI	Plasticity Index
<425	% of material in sample passing 425 micron sieve
LL	Liquid Limit
PL	Plastic Limit
MC	Water Content
NP	Non Plastic
Y _b	Bulk Density
Y _d	Dry Density
Ps	Particle Density
U/D	Undrained/Drained Triaxial
U/C	Unconsolidated/Consolidated Triaxial
T/M	Single Stage/Multistage Triaxial
100/38	Sample Diameter (mm)
REM	Remoulded Triaxial Test Specimen
TST	Triaxial Suction Test
V	Vane Test
DSB	Drained Shear Box
RSB	Residual Shear Box
RS	Ring Shear σ_3 Cell Pressure
σ_1 - σ_3	Deviator Stress
c	Cohesion
c ₋	Effective Cohesion Intercept ϕ
ϕ ₋	Effective Angle of Shearing Resistance ϵf
p _{-o}	Effective Overburden Pressure m _v Coefficient of Volume
c _v	Coefficient of Consolidation
Std	Standard Compaction - 2.5kg Rammer
Hvy	Heavy Compaction - 4.5kg Rammer
Vib	Vibratory Compaction
CBR	California Bearing Ratio
MCV	Moisture Condition Value

Natural Moisture Content/Atterberg Limits Summary

Job Ref

BS 1377 : Part 2 : 1990 : Clause 3

Location

Cleeves Riverside Quarter Development - Ground Investigation

P25019

Hole ID	Sample Ref	Depth (m)	Sample Type	Sample Description	MC	LL	PL	PI	% Pass 425
ST303	2	0.8	B	Very clayey very sandy GRAVEL with medium cobble content		25	17	8	58.1
ST303	3	1	D	Very clayey very sandy GRAVEL with medium cobble content	14				
ST304	2	0.8	B	Slightly gravelly sandy CLAY with low cobble content		28	18	10	67.7
ST304	3	1	D	Slightly gravelly sandy CLAY with low cobble content	15				
ST306	2	0.8	B	Very clayey very sandy GRAVEL with low cobble content		19	13	6	49.2
ST306	3	1	D	Very clayey very sandy GRAVEL with low cobble content	7				
TP301	4	0.4	B	Silty very sandy GRAVEL with medium cobble content		20	NP	NP	51.6
TP301	5	0.5	D	Silty very sandy GRAVEL with medium cobble content	12				
TP301	7	2	D	Clayey very sandy GRAVEL	8				
TP302	3	0.5	D	Clayey very sandy GRAVEL	8	20	14	6	35.9
TP304	2	0.5	D	Slightly sandy slightly gravelly CLAY with medium cobble content	18	32	22	10	68.9
TP304	7	2	B	Slightly gravelly sandy SILT with low cobble content		45	27	18	77.4
TP304	8	2.2	D	Slightly sandy slightly gravelly CLAY	33				
TP305	5	0.5	D	Clayey very sandy GRAVEL	22				
TP305	7	1.5	D	Slightly sandy slightly gravelly CLAY	8	39	26	13	64.3
TP306	4	1.5	B	Very clayey very gravelly SAND with medium cobble content		22	15	7	64.6
TP306	5	1.5	D	Very clayey very gravelly SAND with medium cobble content	19				
TP307	1	0.5	B	Very clayey very gravelly SAND with medium cobble content		43	30	13	75.3
TP307	2	0.5	D	Very clayey very sandy GRAVEL with low cobble content	27				
TP307	7	2	B	Very clayey very sandy GRAVEL with low cobble content		22	15	7	57.6

Natural Moisture Content/Atterberg Limits Summary

Job Ref

BS 1377 : Part 2 : 1990 : Clause 3

Location

Cleeves Riverside Quarter Development - Ground Investigation

P25019

Hole ID	Sample Ref	Depth (m)	Sample Type	Sample Description	MC	LL	PL	PI	% Pass 425
TP307	8	2	D	Very clayey very sandy GRAVEL with low cobble content	9				
TP308	1	0.5	B	Slightly gravelly slightly sandy CLAY with low cobble content		45	31	14	77.8
TP308	2	0.5	D	Slightly gravelly slightly sandy CLAY with low cobble content	26				
TP308	7	2	B	Silty very sandy GRAVEL with low cobble content		24	19	5	53.9
TP308	8	2	D	Silty very sandy GRAVEL with low cobble content	9				
TP309	5	1	D	Very clayey very sandy GRAVEL with low cobble content	11				
TP310	4	1	D	Very clayey very sandy GRAVEL	8	18	12	6	59.5
TP311	1	0.5	B	Slightly gravelly slightly sandy SILT		55	34	21	97.8
TP311	2	0.5	D	Slightly gravelly slightly sandy SILT	35				
TP311	4	1	B	Slightly gravelly sandy CLAY		32	19	13	88.8
TP311	5	1	D	Slightly gravelly sandy CLAY	22				
TP312	1	0.5	B	Very silty very sandy GRAVEL		48	33	15	79.6
TP312	2	0.5	D	Very silty very sandy GRAVEL	7				
TP312	7	2	B	Very silty very sandy GRAVEL with medium cobble content		20	15	5	62.3
TP312	8	2	D	Very silty very sandy GRAVEL with medium cobble content	21				
TP313	4	1	B	Slightly gravelly slightly sandy CLAY		29	18	11	73.2
TP313	5	1	D	Slightly gravelly slightly sandy CLAY	10				
TP314	4	1	B	Very clayey very sandy GRAVEL with low cobble content		30	23	7	63.8
TP314	5	1	D	Very clayey very sandy GRAVEL with low cobble content	14				
TP316	5	1	D	Slightly gravelly silty SAND	15				

[illegible]

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

BH301*

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

1

Depth

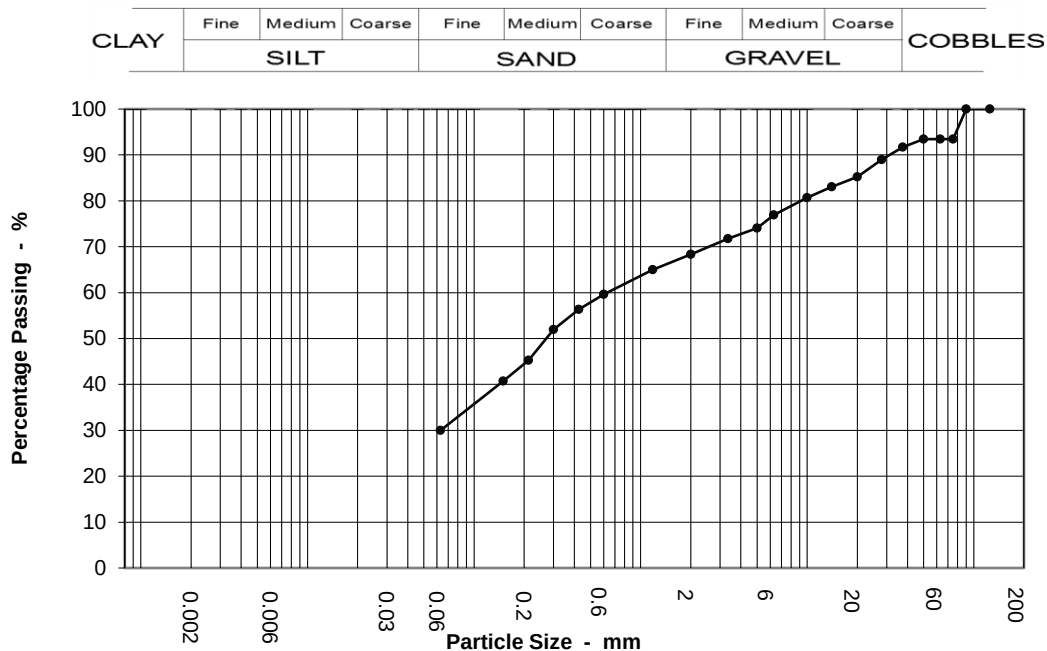
0.50 m

Soil Description

Very gravelly very clayey SAND

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	93		
63	93		
50	93		
37.5	92		
28	89		
20	85		
14	83		
10	81		
6.3	77		
5	74		
3.35	72		
2	68		
1.18	65		
0.6	60		
0.425	56		
0.3	52		
0.212	45		
0.15	41		
0.063	30		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	7.0
Gravel	25.0
Sand	38.0
Silt & Clay	30.0

Grading Analysis	
D100	90.00
D60	0.63
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

BH301*

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

4

Depth

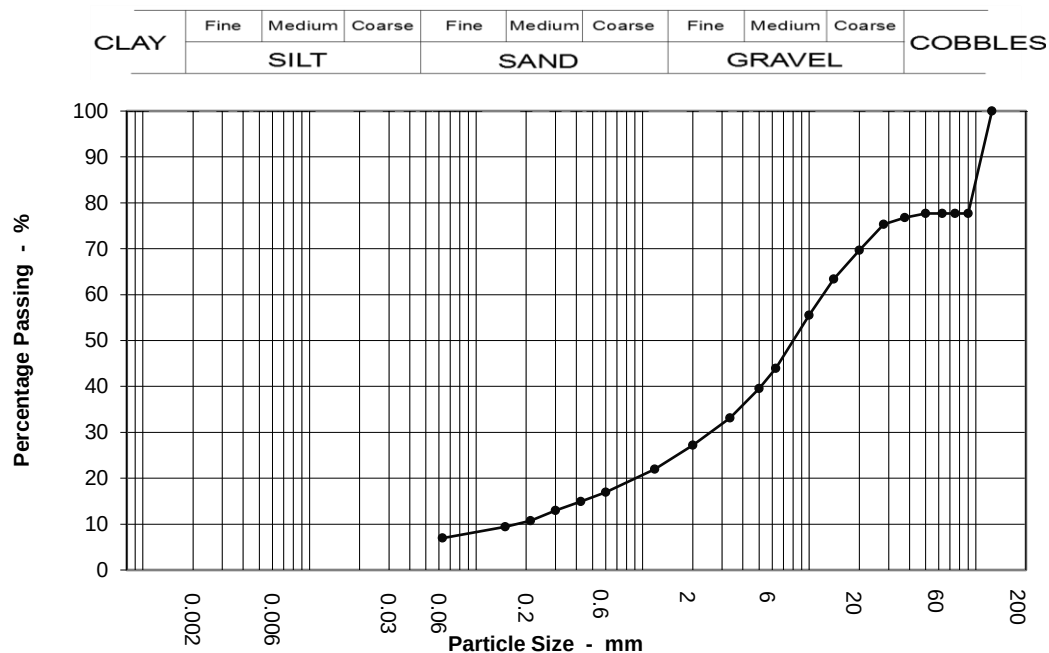
2.00 m

Soil Description

Clayey very sandy GRAVEL with medium cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	78		
75	78		
63	78		
50	78		
37.5	77		
28	75		
20	70		
14	63		
10	56		
6.3	44		
5	40		
3.35	33		
2	27		
1.18	22		
0.6	17		
0.425	15		
0.3	13		
0.212	11		
0.15	9		
0.063	7		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	22.0
Gravel	51.0
Sand	20.0
Silt & Clay	7.0

Grading Analysis	
D100	125.00
D60	12.10
D10	0.18
Uniformity Coefficient	69.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

BH303

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

1

Depth

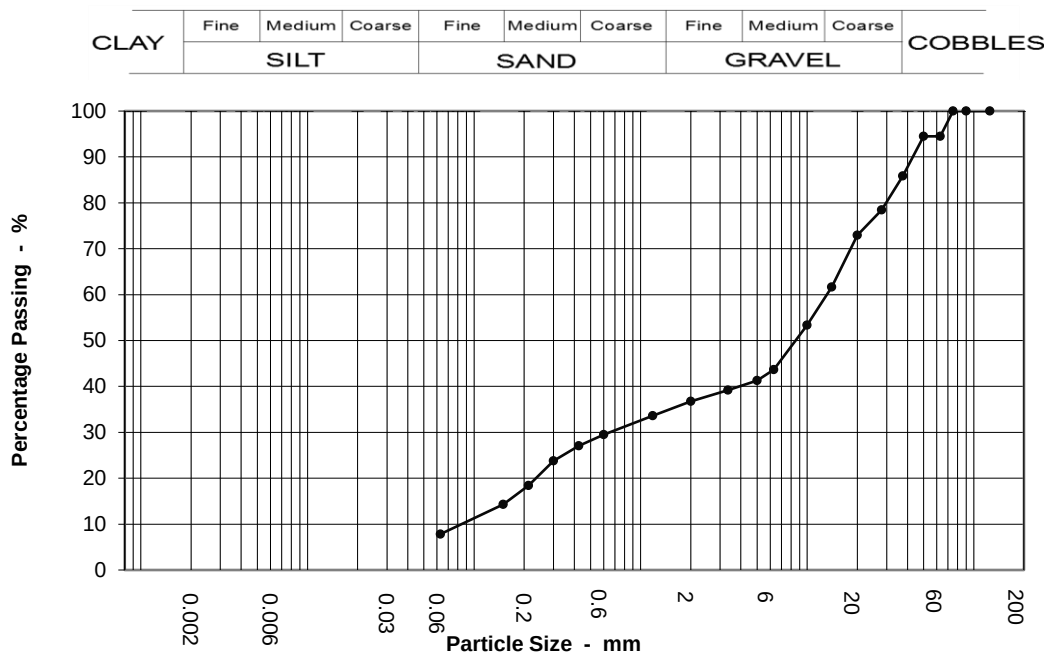
0.30 m

Soil Description

Clayey very sandy GRAVEL with medium cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	95		
50	95		
37.5	86		
28	78		
20	73		
14	62		
10	53		
6.3	44		
5	41		
3.35	39		
2	37		
1.18	34		
0.6	29		
0.425	27		
0.3	24		
0.212	18		
0.15	14		
0.063	8		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	5.0
Gravel	58.0
Sand	29.0
Silt & Clay	8.0

Grading Analysis	
D100	75.00
D60	13.10
D10	0.08
Uniformity Coefficient	160.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

BH304*

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

19

Depth

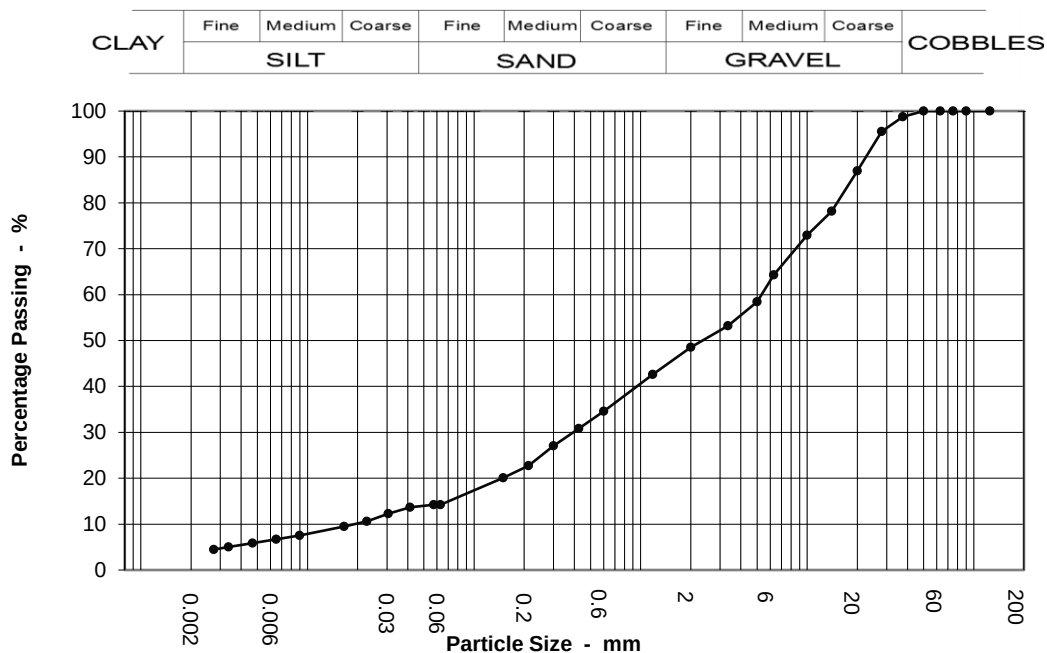
0.50 m

Soil Description

Silty very sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.057	14
90	100	0.041	14
75	100	0.031	12
63	100	0.023	11
50	100	0.017	9
37.5	99	0.009	8
28	96	0.006	7
20	87	0.005	6
14	78	0.003	5
10	73	0.003	4
6.3	64	0.001	4
5	58		
3.35	53		
2	49		
1.18	43		
0.6	35		
0.425	31		
0.3	27		
0.212	23		
0.15	20		
0.063	14		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	0.0
Gravel	51.0
Sand	34.0
Silt	10.0
Clay	4.0

Grading Analysis	
D100	50.00
D60	5.32
D10	0.02
Uniformity Coefficient	280.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

BH304*

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

22

Depth

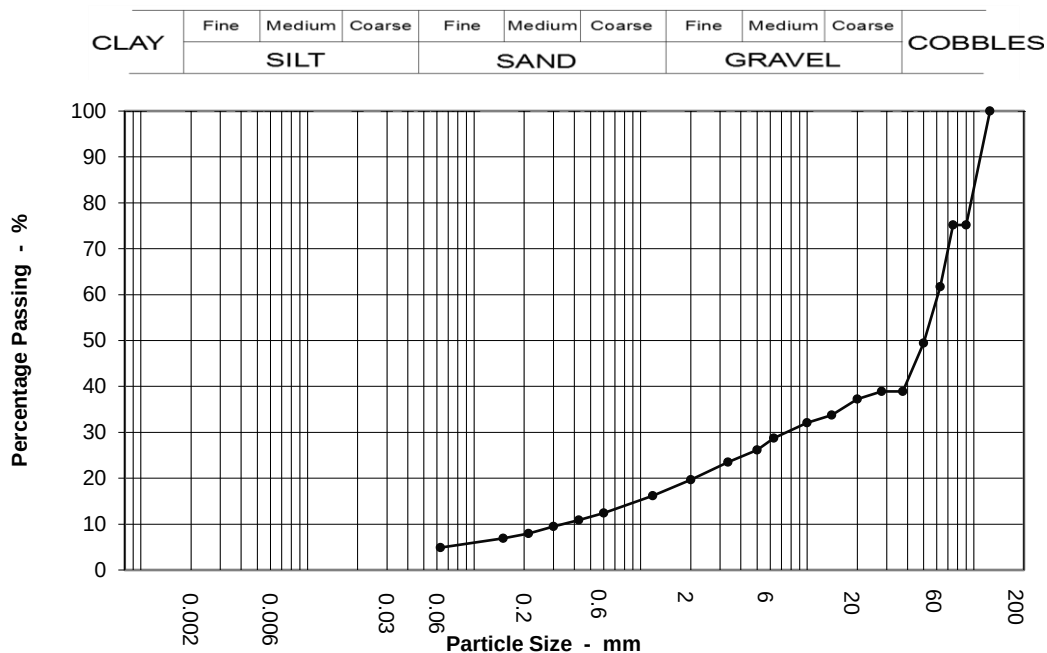
2.00 m

Soil Description

Clayey very sandy GRAVEL with medium cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	75		
75	75		
63	62		
50	49		
37.5	39		
28	39		
20	37		
14	34		
10	32		
6.3	29		
5	26		
3.35	24		
2	20		
1.18	16		
0.6	12		
0.425	11		
0.3	9		
0.212	8		
0.15	7		
0.063	5		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	38.0
Gravel	42.0
Sand	15.0
Silt & Clay	5.0

Grading Analysis	
D100	125.00
D60	61.00
D10	0.34
Uniformity Coefficient	180.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

BH309*

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

22

Depth

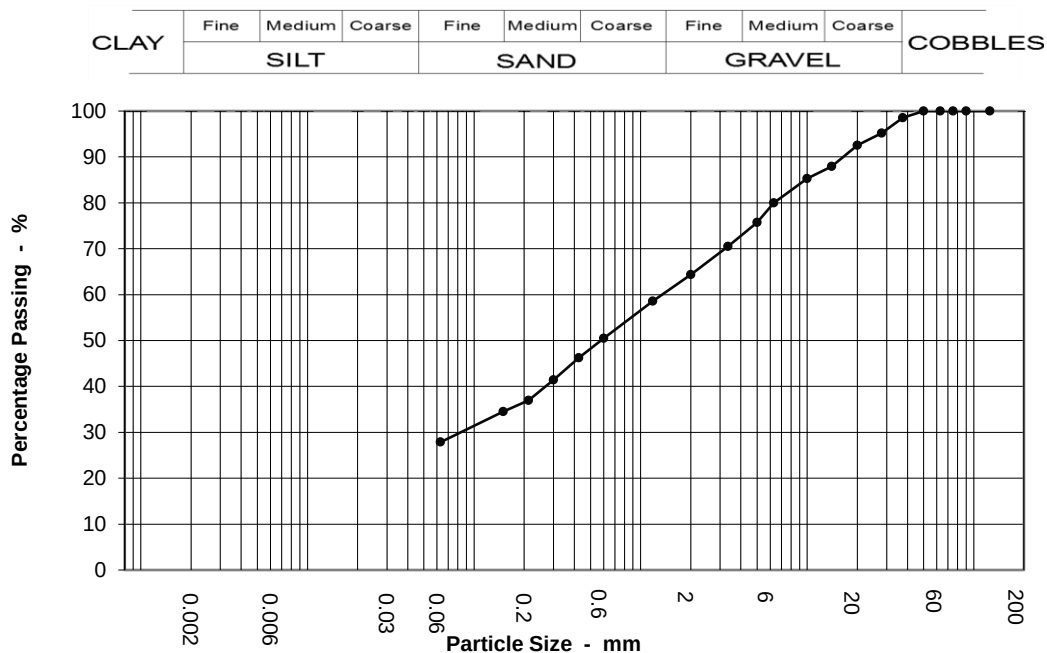
2.00 m

Soil Description

Very clayey very sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	99		
28	95		
20	93		
14	88		
10	85		
6.3	80		
5	76		
3.35	70		
2	64		
1.18	59		
0.6	50		
0.425	46		
0.3	41		
0.212	37		
0.15	34		
0.063	28		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	36.0
Sand	36.0
Silt & Clay	28.0

Grading Analysis	
D100	50.00
D60	1.35
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

BH309*

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

21

Depth

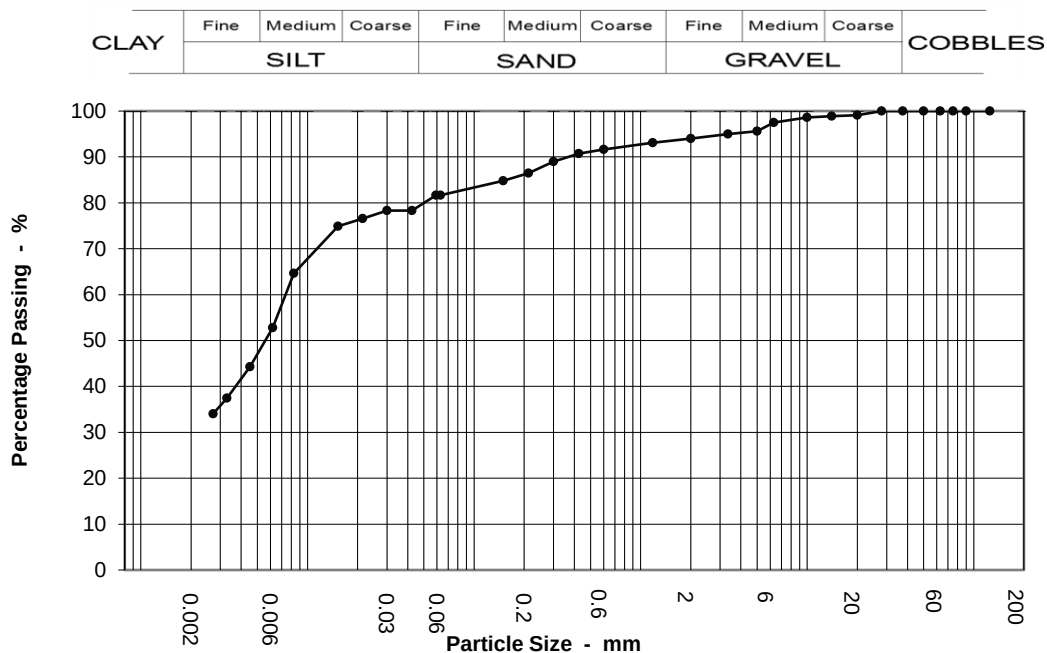
2.80 m

Soil Description

Slightly gravelly slightly sandy CLAY

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.059	82
90	100	0.042	78
75	100	0.030	78
63	100	0.021	77
50	100	0.015	75
37.5	100	0.008	65
28	100	0.006	53
20	99	0.005	44
14	99	0.003	37
10	99	0.003	34
6.3	98	0.001	27
5	96		
3.35	95		
2	94		
1.18	93		
0.6	92		
0.425	91		
0.3	89		
0.212	86		
0.15	85		
0.063	82		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	0.0
Gravel	6.0
Sand	12.0
Silt	51.0
Clay	31.0

Grading Analysis	
D100	28.00
D60	0.01
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

BH310

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

7

Depth

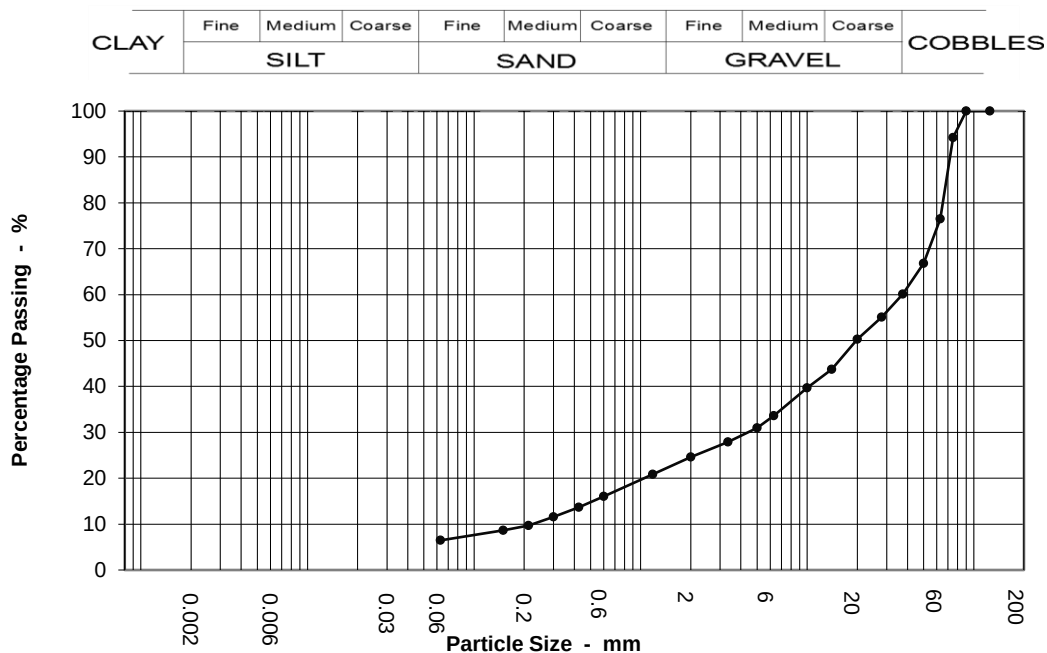
0.50 m

Soil Description

Silty very sandy GRAVEL with medium cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	94		
63	76		
50	67		
37.5	60		
28	55		
20	50		
14	44		
10	40		
6.3	34		
5	31		
3.35	28		
2	25		
1.18	21		
0.6	16		
0.425	14		
0.3	12		
0.212	10		
0.15	9		
0.063	6		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	24.0
Gravel	52.0
Sand	18.0
Silt & Clay	6.0

Grading Analysis	
D100	90.00
D60	37.30
D10	0.23
Uniformity Coefficient	170.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

BH310

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

9

Depth

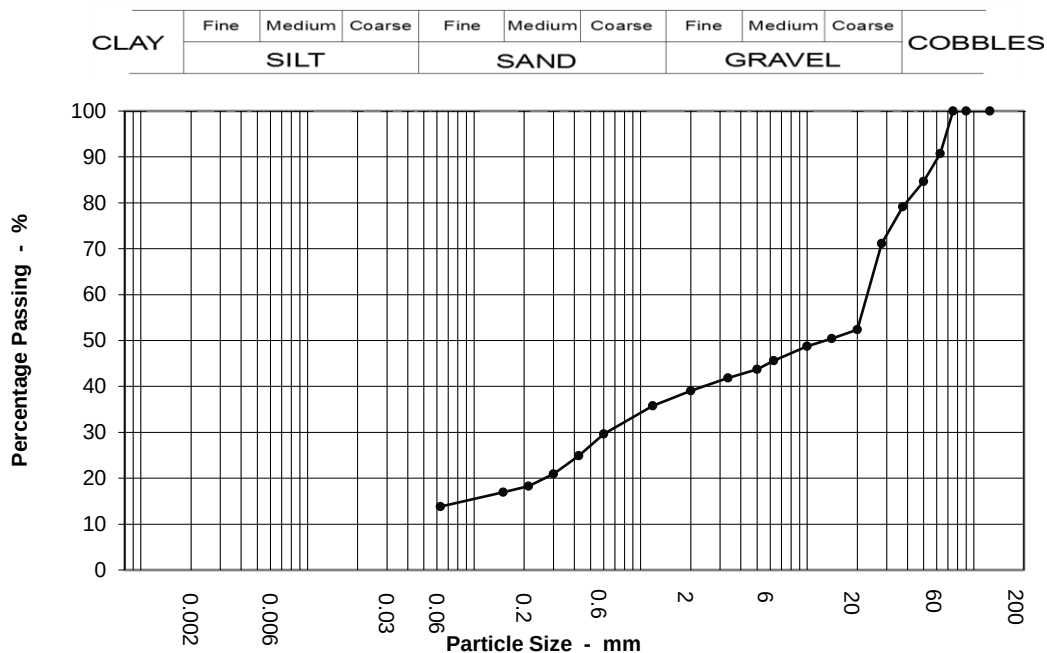
1.50 m

Soil Description

Clayey very sandy GRAVEL with low cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	91		
50	85		
37.5	79		
28	71		
20	52		
14	50		
10	49		
6.3	46		
5	44		
3.35	42		
2	39		
1.18	36		
0.6	30		
0.425	25		
0.3	21		
0.212	18		
0.15	17		
0.063	14		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	9.0
Gravel	52.0
Sand	25.0
Silt & Clay	14.0

Grading Analysis	
D100	75.00
D60	22.90
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

BH311

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

27

Depth

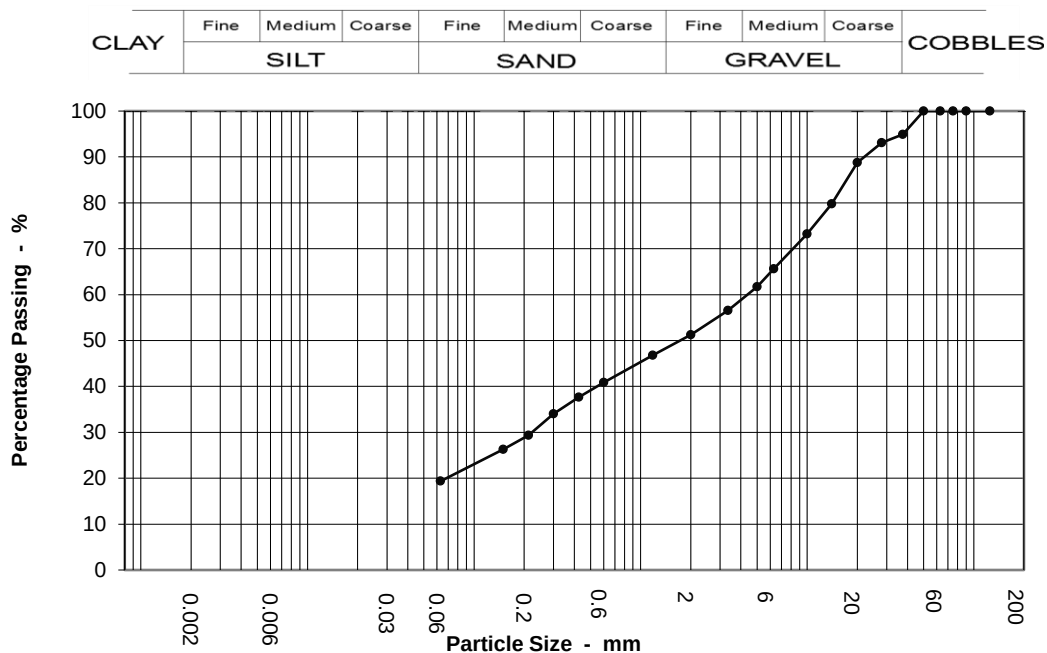
2.00 m

Soil Description

Clayey very sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	95		
28	93		
20	89		
14	80		
10	73		
6.3	66		
5	62		
3.35	57		
2	51		
1.18	47		
0.6	41		
0.425	38		
0.3	34		
0.212	29		
0.15	26		
0.063	19		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	49.0
Sand	32.0
Silt & Clay	19.0

Grading Analysis	
D100	50.00
D60	4.37
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

BH311

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

25

Depth

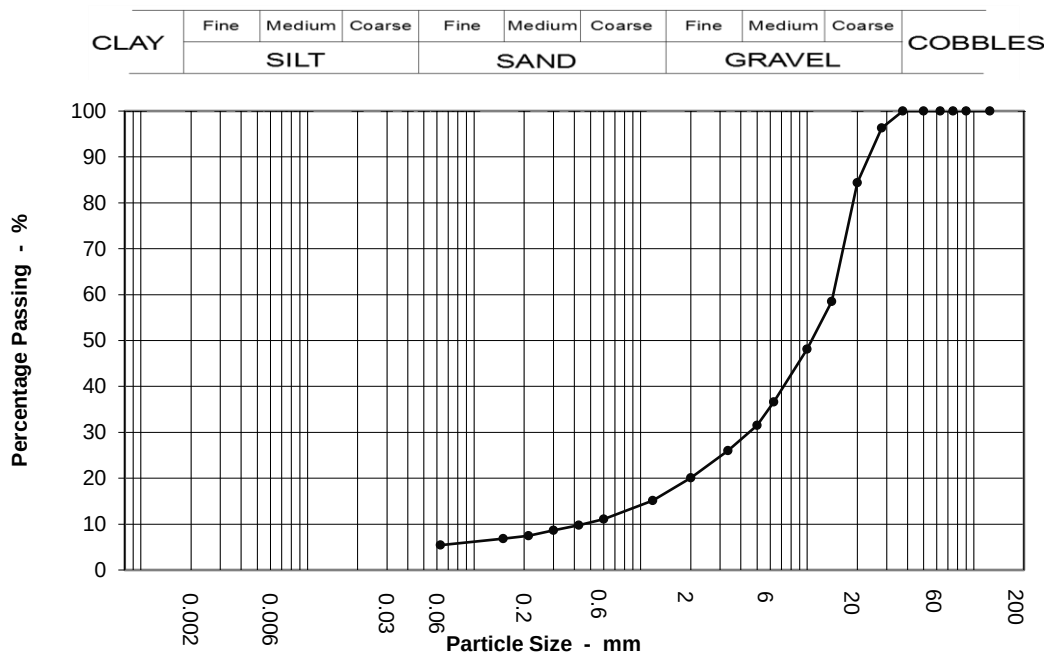
3.80 m

Soil Description

Slightly clayey sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	96		
20	84		
14	59		
10	48		
6.3	37		
5	32		
3.35	26		
2	20		
1.18	15		
0.6	11		
0.425	10		
0.3	9		
0.212	7		
0.15	7		
0.063	5		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	80.0
Sand	15.0
Silt & Clay	5.0

Grading Analysis	
D100	37.50
D60	14.30
D10	0.45
Uniformity Coefficient	32.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

BH312

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

13

Depth

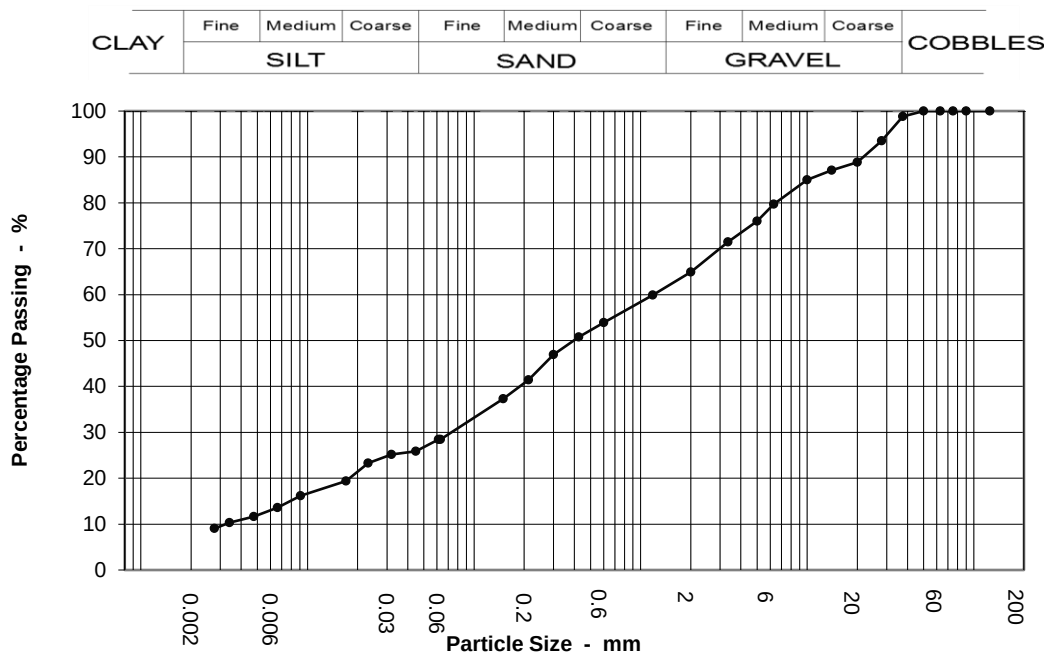
0.50 m

Soil Description

Very silty very gravelly SAND

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.061	28
90	100	0.045	26
75	100	0.032	25
63	100	0.023	23
50	100	0.017	19
37.5	99	0.009	16
28	93	0.007	14
20	89	0.005	12
14	87	0.003	10
10	85	0.003	9
6.3	80	0.002	6
5	76		
3.35	71		
2	65		
1.18	60		
0.6	54		
0.425	51		
0.3	47		
0.212	41		
0.15	37		
0.063	28		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	0.0
Gravel	35.0
Sand	36.0
Silt	21.0
Clay	8.0

Grading Analysis	
D100	50.00
D60	1.19
D10	0.00
Uniformity Coefficient	370.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

BH312

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

14

Depth

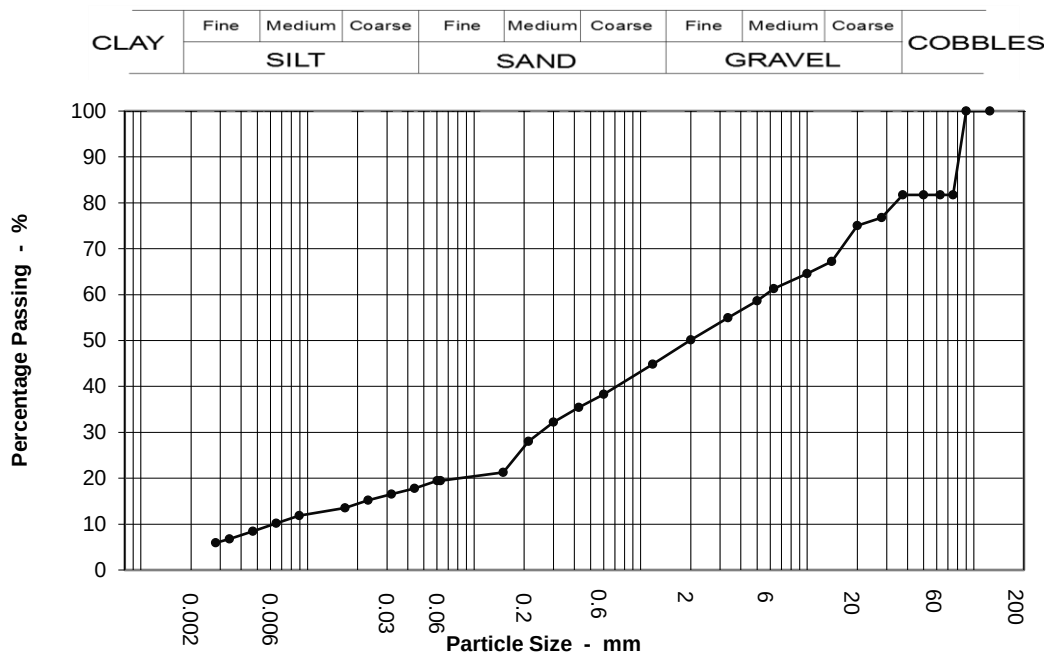
1.50 m

Soil Description

Very silty very sandy GRAVEL with medium cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.060	19
90	100	0.044	18
75	82	0.032	16
63	82	0.023	15
50	82	0.017	14
37.5	82	0.009	12
28	77	0.006	10
20	75	0.005	8
14	67	0.003	7
10	65	0.003	6
6.3	61	0.002	4
5	59		
3.35	55		
2	50		
1.18	45		
0.6	38		
0.425	35		
0.3	32		
0.212	28		
0.15	21		
0.063	19		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	18.0
Gravel	32.0
Sand	31.0
Silt	14.0
Clay	5.0

Grading Analysis	
D100	90.00
D60	5.64
D10	0.01
Uniformity Coefficient	900.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

BH312

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

15

Depth

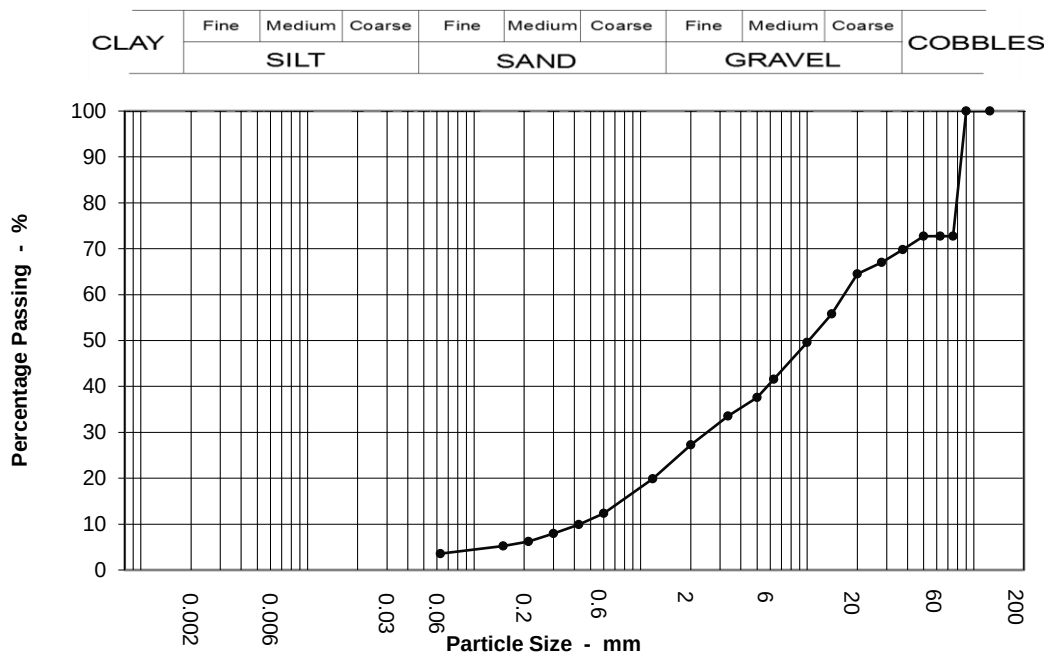
2.00 m

Soil Description

Slightly silty very sandy GRAVEL with medium cobble
content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	73		
63	73		
50	73		
37.5	70		
28	67		
20	65		
14	56		
10	50		
6.3	42		
5	38		
3.35	34		
2	27		
1.18	20		
0.6	12		
0.425	10		
0.3	8		
0.212	6		
0.15	5		
0.063	4		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	27.0
Gravel	45.0
Sand	24.0
Silt & Clay	4.0

Grading Analysis	
D100	90.00
D60	16.60
D10	0.43
Uniformity Coefficient	39.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

BH314*

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

19

Depth

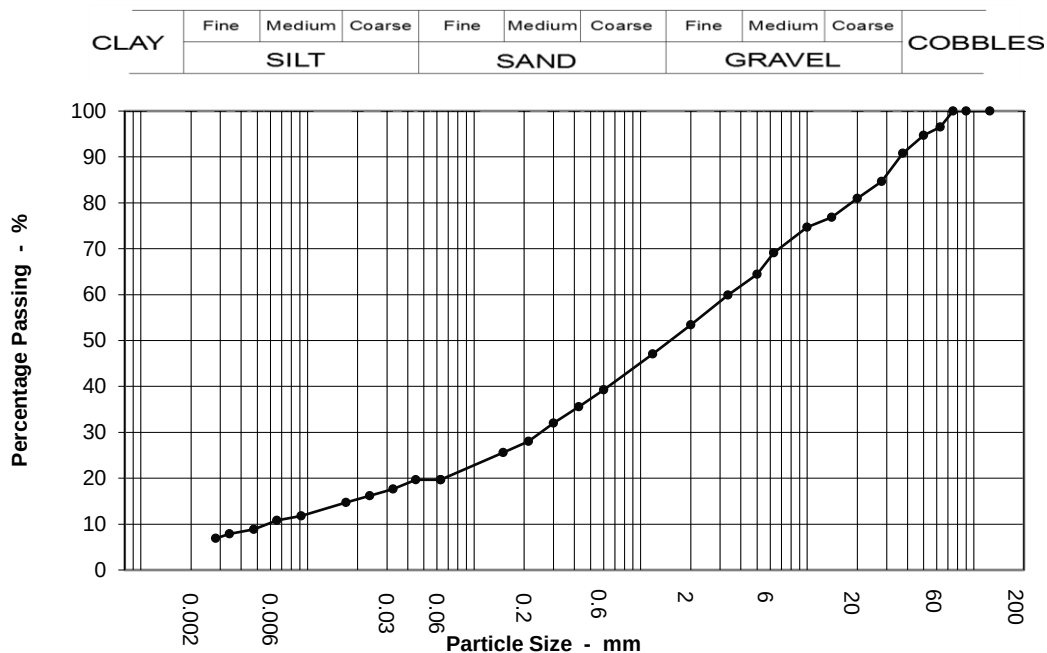
0.50 m

Soil Description

Very silty very sandy GRAVEL with low cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.063	20
90	100	0.045	20
75	100	0.033	18
63	97	0.024	16
50	95	0.017	15
37.5	91	0.009	12
28	85	0.007	11
20	81	0.005	9
14	77	0.003	8
10	75	0.003	7
6.3	69	0.002	5
5	64		
3.35	60		
2	53		
1.18	47		
0.6	39		
0.425	36		
0.3	32		
0.212	28		
0.15	26		
0.063	20		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	3.0
Gravel	43.0
Sand	34.0
Silt	14.0
Clay	6.0

Grading Analysis	
D100	75.00
D60	3.38
D10	0.01
Uniformity Coefficient	590.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

BH314*

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

22

Depth

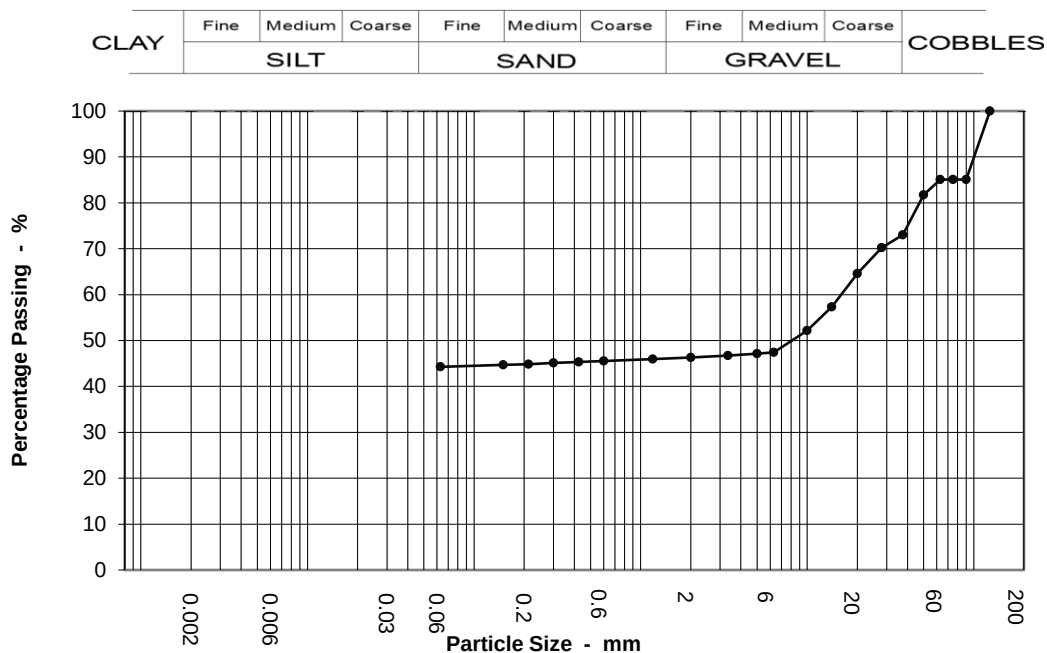
3.00 m

Soil Description

Slightly sandy gravelly SILT with medium cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	85		
75	85		
63	85		
50	82		
37.5	73		
28	70		
20	65		
14	57		
10	52		
6.3	47		
5	47		
3.35	47		
2	46		
1.18	46		
0.6	46		
0.425	45		
0.3	45		
0.212	45		
0.15	45		
0.063	44		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	15.0
Gravel	39.0
Sand	2.0
Silt & Clay	44.0

Grading Analysis	
D100	125.00
D60	15.90
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

BH315*

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

24

Depth

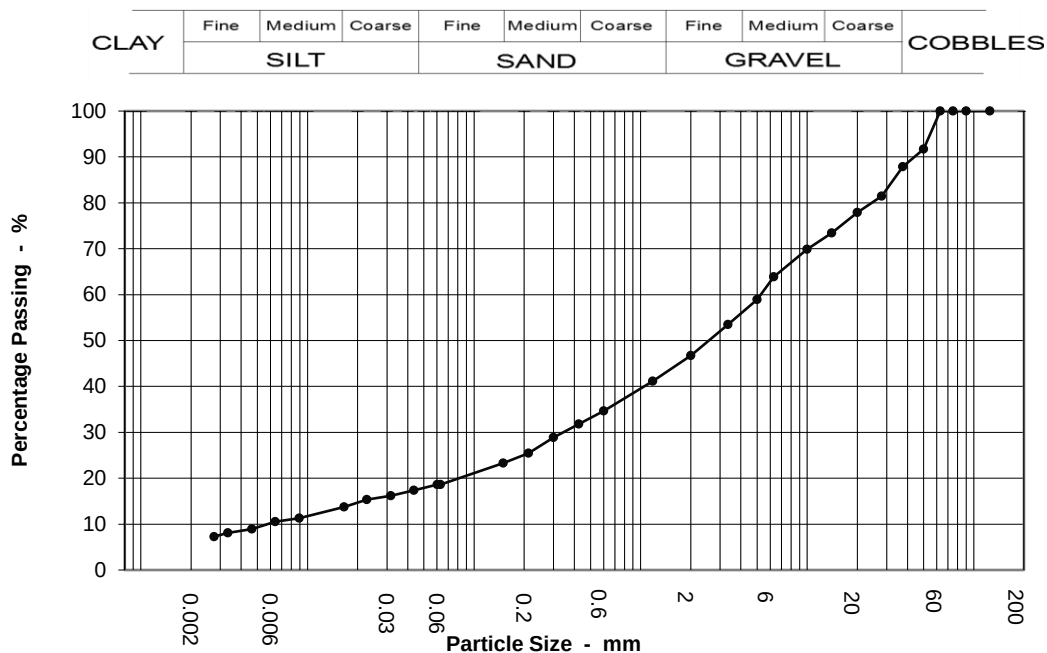
0.50 m

Soil Description

Silty very sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.060	19
90	100	0.044	17
75	100	0.032	16
63	100	0.023	15
50	92	0.017	14
37.5	88	0.009	11
28	81	0.006	11
20	78	0.005	9
14	73	0.003	8
10	70	0.003	7
6.3	64	0.001	5
5	59		
3.35	53		
2	47		
1.18	41		
0.6	35		
0.425	32		
0.3	29		
0.212	25		
0.15	23		
0.063	19		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	0.0
Gravel	53.0
Sand	28.0
Silt	12.0
Clay	6.0

Grading Analysis	
D100	63.00
D60	5.26
D10	0.01
Uniformity Coefficient	910.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

BH315*

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

22

Depth

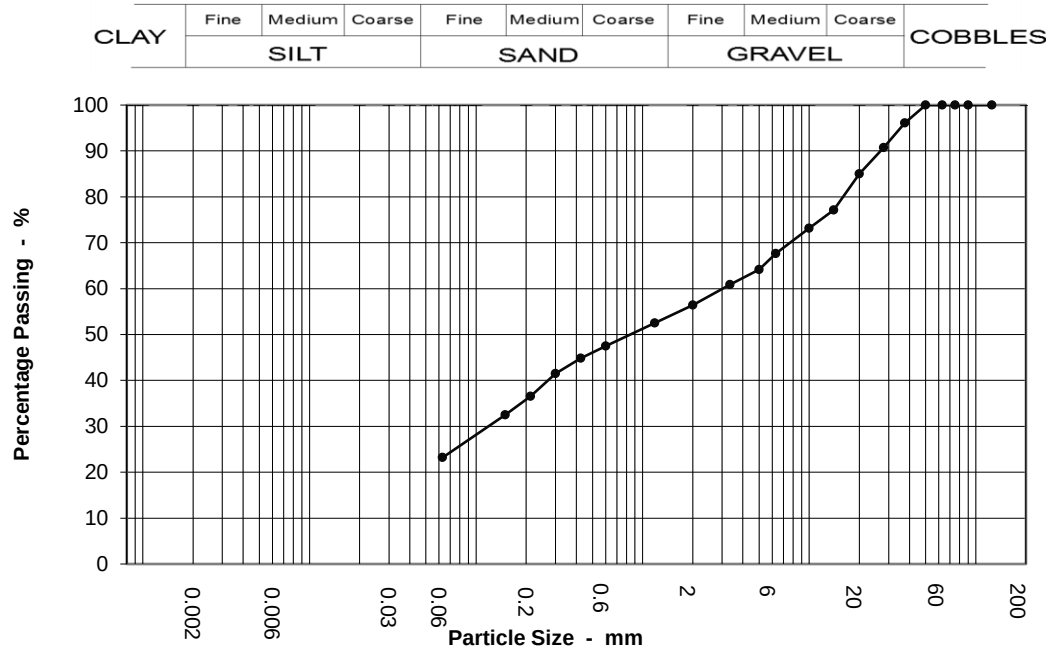
1.50 m

Soil Description

Very silty very sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	96		
28	91		
20	85		
14	77		
10	73		
6.3	68		
5	64		
3.35	61		
2	56		
1.18	53		
0.6	48		
0.425	45		
0.3	42		
0.212	37		
0.15	33		
0.063	23		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	44.0
Sand	33.0
Silt & Clay	23.0

Grading Analysis	
D100	50.00
D60	3.02
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

BH316

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

13

Depth

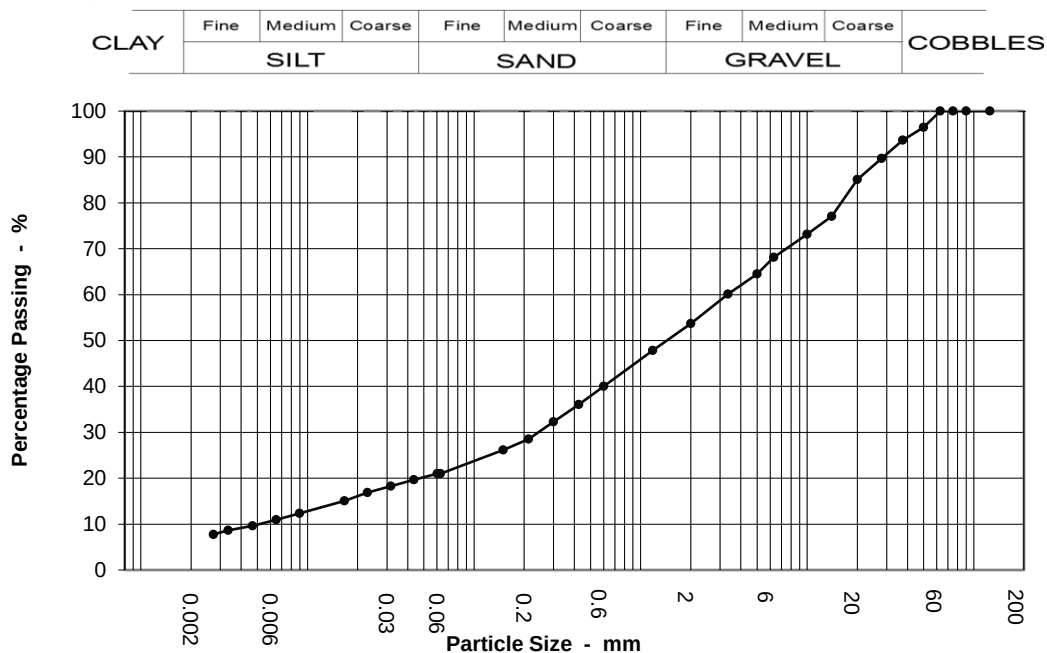
0.50 m

Soil Description

Very silty very sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.060	21
90	100	0.044	20
75	100	0.032	18
63	100	0.023	17
50	96	0.017	15
37.5	94	0.009	12
28	90	0.006	11
20	85	0.005	10
14	77	0.003	9
10	73	0.003	8
6.3	68	0.001	6
5	64		
3.35	60		
2	54		
1.18	48		
0.6	40		
0.425	36		
0.3	32		
0.212	29		
0.15	26		
0.063	21		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	0.0
Gravel	46.0
Sand	33.0
Silt	14.0
Clay	7.0

Grading Analysis	
D100	63.00
D60	3.31
D10	0.01
Uniformity Coefficient	640.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

BH316

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

16

Depth

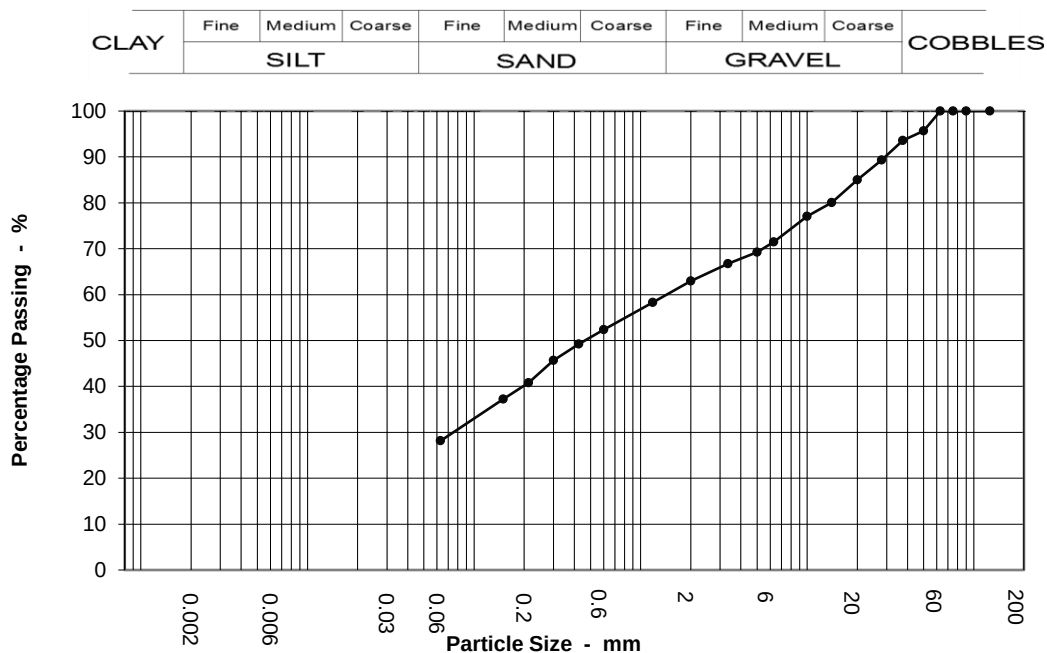
2.00 m

Soil Description

Very silty very sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	96		
37.5	94		
28	89		
20	85		
14	80		
10	77		
6.3	71		
5	69		
3.35	67		
2	63		
1.18	58		
0.6	52		
0.425	49		
0.3	46		
0.212	41		
0.15	37		
0.063	28		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	37.0
Sand	35.0
Silt & Clay	28.0

Grading Analysis	
D100	63.00
D60	1.43
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

BH316

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

18

Depth

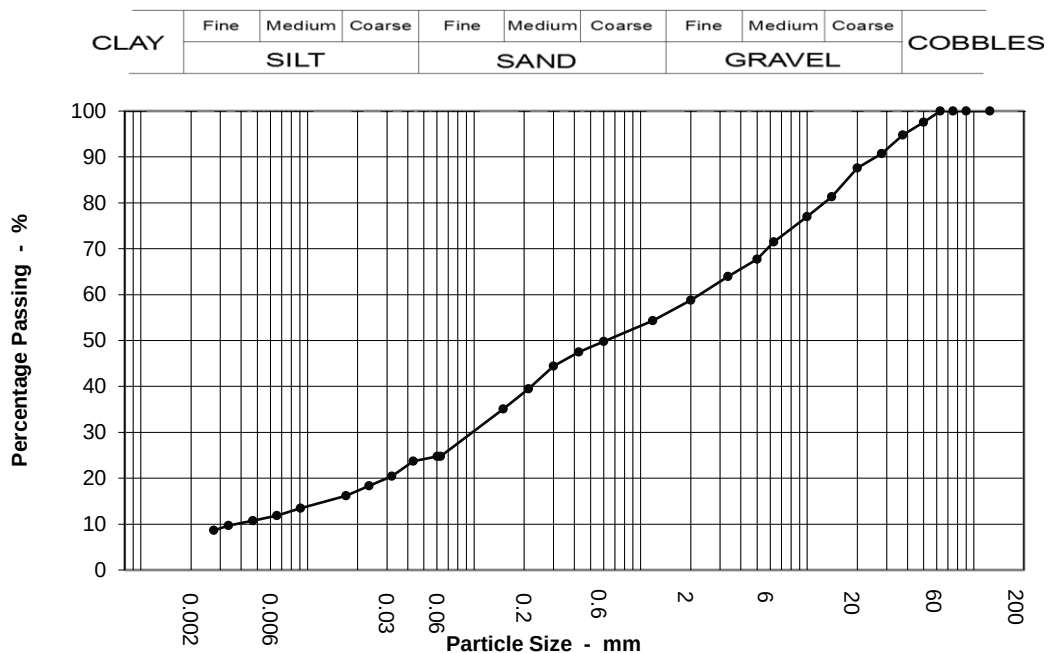
3.50 m

Soil Description

Very silty very sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.060	25
90	100	0.043	24
75	100	0.032	20
63	100	0.023	18
50	98	0.017	16
37.5	95	0.009	13
28	91	0.007	12
20	88	0.005	11
14	81	0.003	10
10	77	0.003	9
6.3	71	0.001	8
5	68		
3.35	64		
2	59		
1.18	54		
0.6	50		
0.425	47		
0.3	44		
0.212	39		
0.15	35		
0.063	25		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	0.0
Gravel	41.0
Sand	34.0
Silt	17.0
Clay	8.0

Grading Analysis	
D100	63.00
D60	2.25
D10	0.00
Uniformity Coefficient	610.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

ST301

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

2

Depth

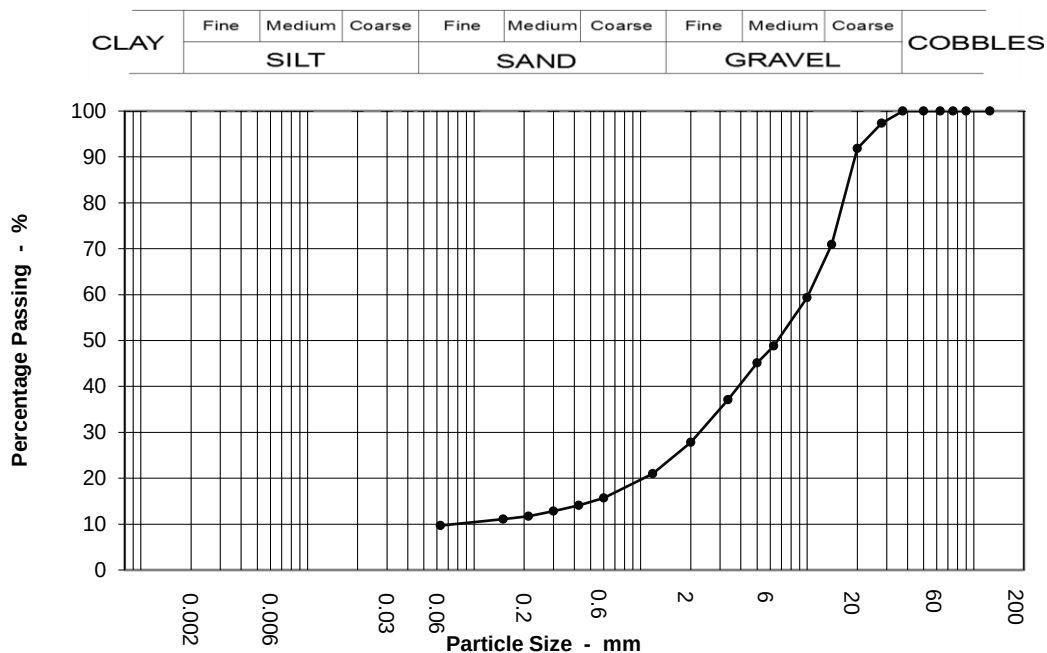
0.80 m

Soil Description

Silty sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	97		
20	92		
14	71		
10	59		
6.3	49		
5	45		
3.35	37		
2	28		
1.18	21		
0.6	16		
0.425	14		
0.3	13		
0.212	12		
0.15	11		
0.063	10		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	72.0
Sand	18.0
Silt & Clay	10.0

Grading Analysis	
D100	37.50
D60	10.20
D10	0.08
Uniformity Coefficient	130.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

ST302

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

2

Depth

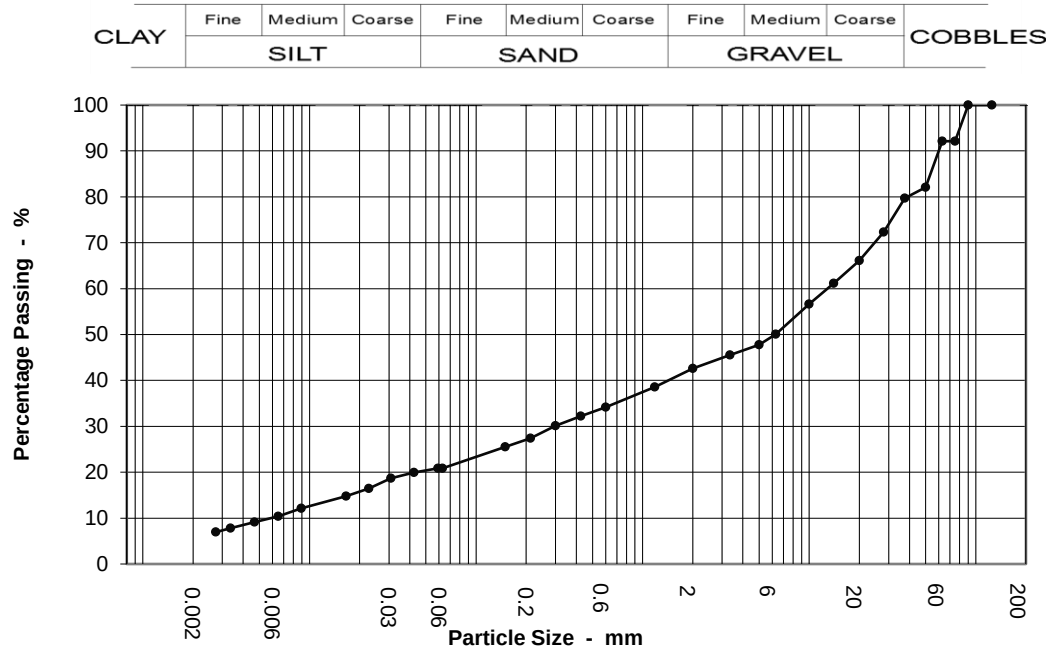
0.80 m

Soil Description

Very clayey very sandy GRAVEL with low cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.059	21
90	100	0.042	20
75	92	0.031	19
63	92	0.023	16
50	82	0.017	15
37.5	80	0.009	12
28	72	0.006	10
20	66	0.005	9
14	61	0.003	8
10	57	0.003	7
6.3	50	0.001	5
5	48		
3.35	46		
2	43		
1.18	39		
0.6	34		
0.425	32		
0.3	30		
0.212	27		
0.15	26		
0.063	21		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	8.0
Gravel	49.0
Sand	22.0
Silt	15.0
Clay	6.0

Grading Analysis	
D100	90.00
D60	12.90
D10	0.01
Uniformity Coefficient	2200.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

ST303

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

2

Depth

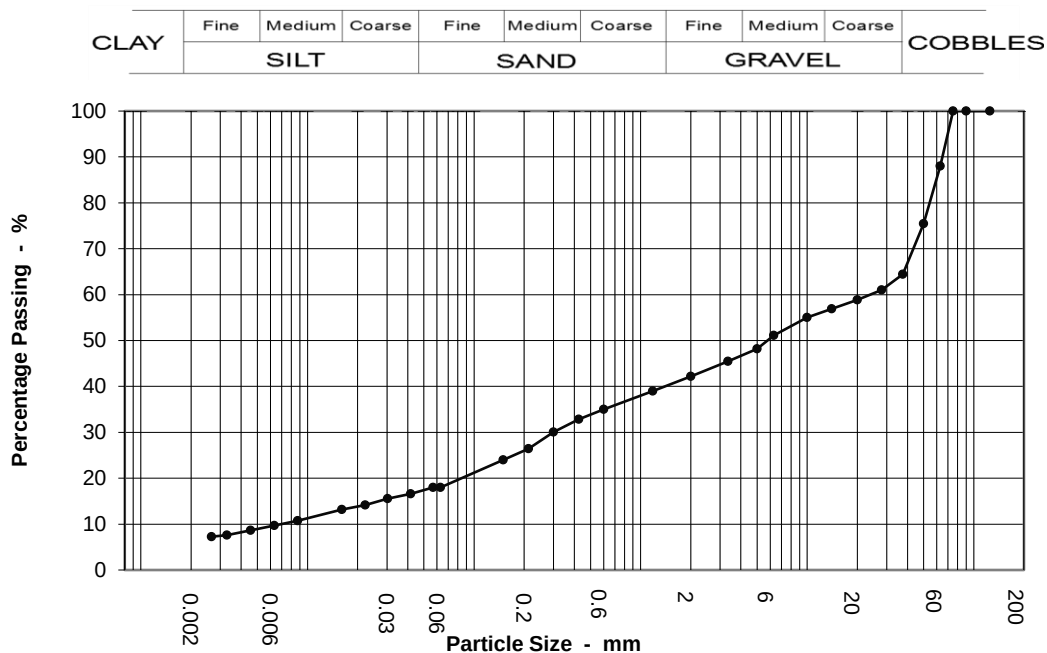
0.80 m

Soil Description

Very clayey very sandy GRAVEL with medium cobble
content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.057	18
90	100	0.042	17
75	100	0.030	16
63	88	0.022	14
50	75	0.016	13
37.5	64	0.009	11
28	61	0.006	10
20	59	0.005	9
14	57	0.003	8
10	55	0.003	7
6.3	51	0.001	6
5	48		
3.35	45		
2	42		
1.18	39		
0.6	35		
0.425	33		
0.3	30		
0.212	26		
0.15	24		
0.063	18		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	12.0
Gravel	46.0
Sand	24.0
Silt	11.0
Clay	7.0

Grading Analysis	
D100	75.00
D60	24.00
D10	0.01
Uniformity Coefficient	3500.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

ST304

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

2

Depth

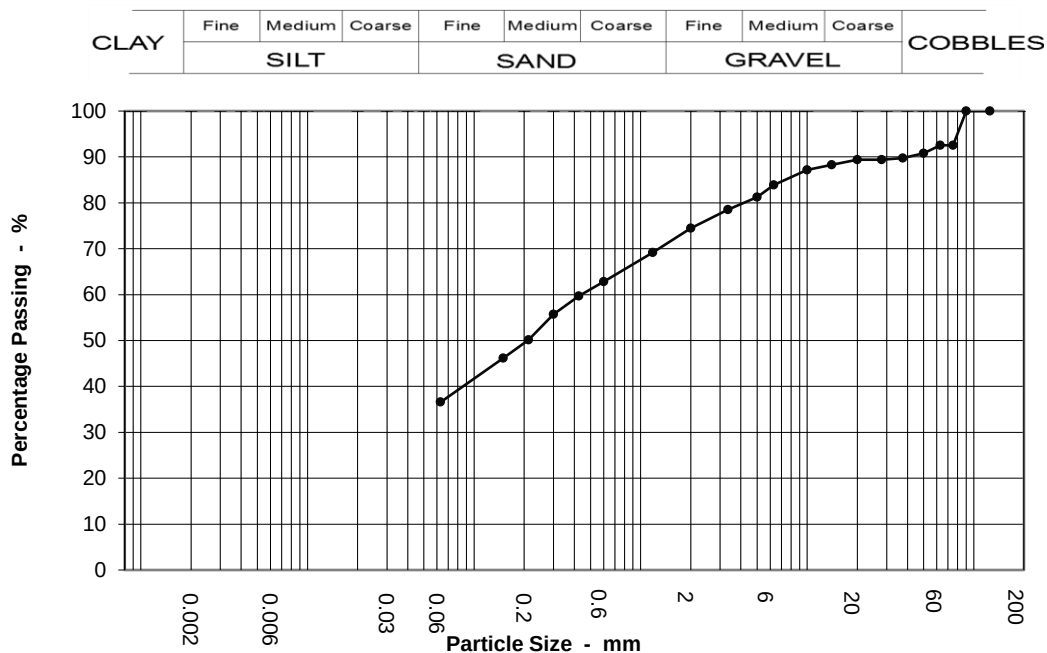
0.80 m

Soil Description

Slightly gravelly sandy CLAY with low cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	93		
63	93		
50	91		
37.5	90		
28	89		
20	89		
14	88		
10	87		
6.3	84		
5	81		
3.35	79		
2	74		
1.18	69		
0.6	63		
0.425	60		
0.3	56		
0.212	50		
0.15	46		
0.063	37		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	7.0
Gravel	18.0
Sand	38.0
Silt & Clay	37.0

Grading Analysis	
D100	90.00
D60	0.44
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

ST306

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

2

Depth

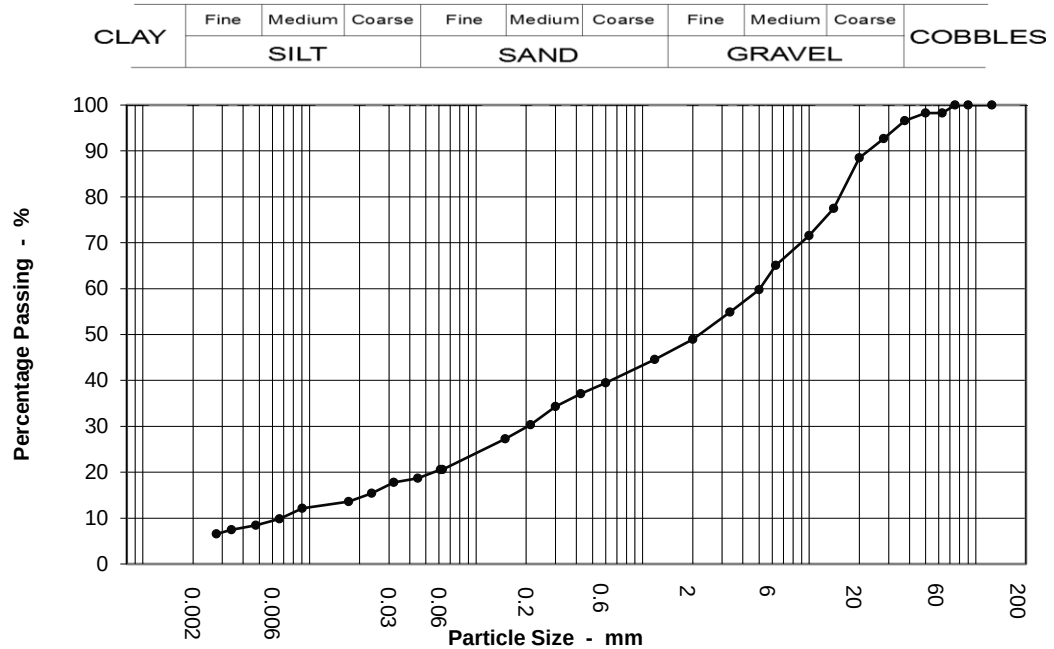
0.80 m

Soil Description

Very clayey very sandy GRAVEL with low cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.061	21
90	100	0.045	19
75	100	0.032	18
63	98	0.024	15
50	98	0.017	14
37.5	97	0.009	12
28	93	0.007	10
20	89	0.005	8
14	78	0.003	7
10	72	0.003	7
6.3	65	0.002	5
5	60		
3.35	55		
2	49		
1.18	45		
0.6	39		
0.425	37		
0.3	34		
0.212	30		
0.15	27		
0.063	21		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	2.0
Gravel	49.0
Sand	28.0
Silt	15.0
Clay	6.0

Grading Analysis	
D100	75.00
D60	5.05
D10	0.01
Uniformity Coefficient	750.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP301

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

4

Depth

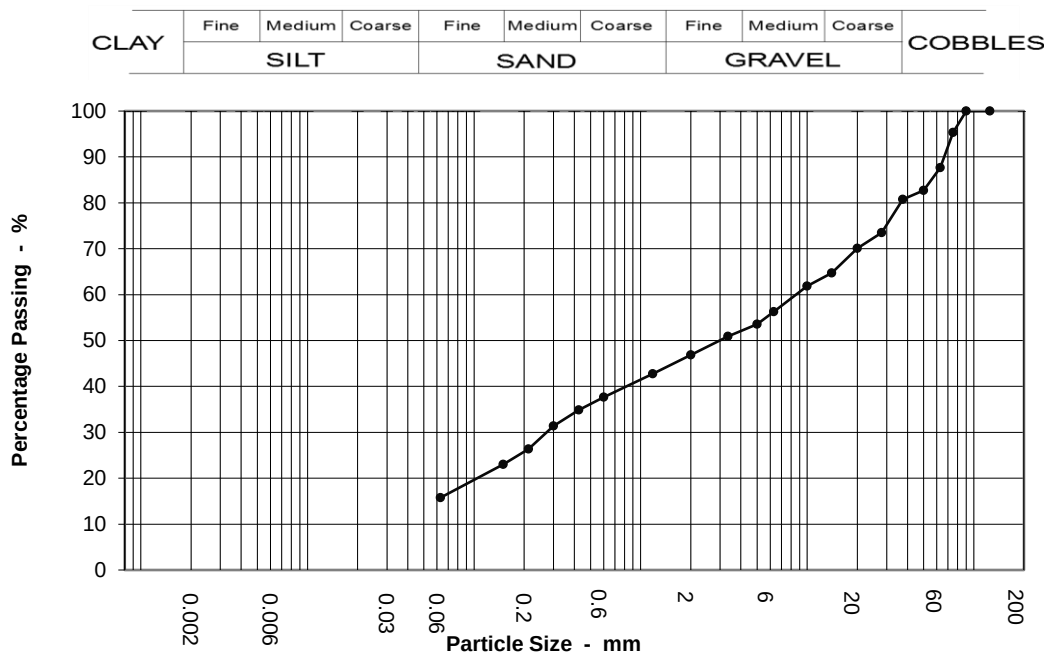
0.40 m

Soil Description

Silty very sandy GRAVEL with medium cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	95		
63	88		
50	83		
37.5	81		
28	74		
20	70		
14	65		
10	62		
6.3	56		
5	54		
3.35	51		
2	47		
1.18	43		
0.6	38		
0.425	35		
0.3	31		
0.212	26		
0.15	23		
0.063	16		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	12.0
Gravel	41.0
Sand	31.0
Silt & Clay	16.0

Grading Analysis	
D100	90.00
D60	8.60
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP301

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

3

Depth

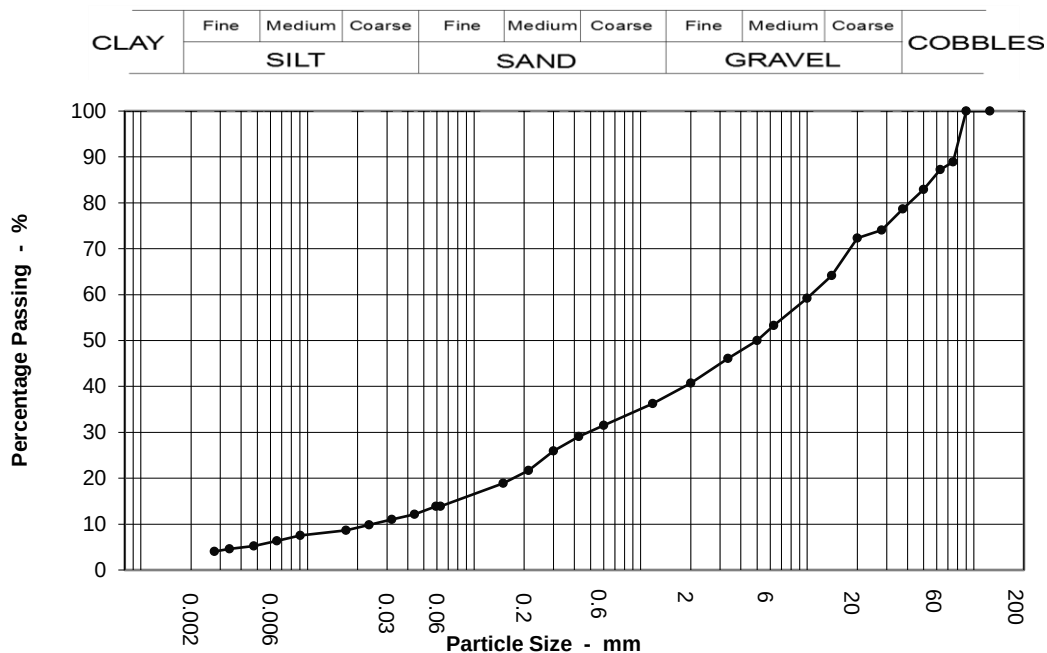
1.20 m

Soil Description

Clayey very sandy GRAVEL with medium cobble content

Sample type

D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.059	14
90	100	0.044	12
75	89	0.032	11
63	87	0.023	10
50	83	0.017	9
37.5	79	0.009	8
28	74	0.007	6
20	72	0.005	5
14	64	0.003	5
10	59	0.003	4
6.3	53	0.002	3
5	50		
3.35	46		
2	41		
1.18	36		
0.6	31		
0.425	29		
0.3	26		
0.212	22		
0.15	19		
0.063	14		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	13.0
Gravel	47.0
Sand	27.0
Silt	10.0
Clay	3.0

Grading Analysis	
D100	90.00
D60	10.60
D10	0.02
Uniformity Coefficient	430.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP302

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

2

Depth

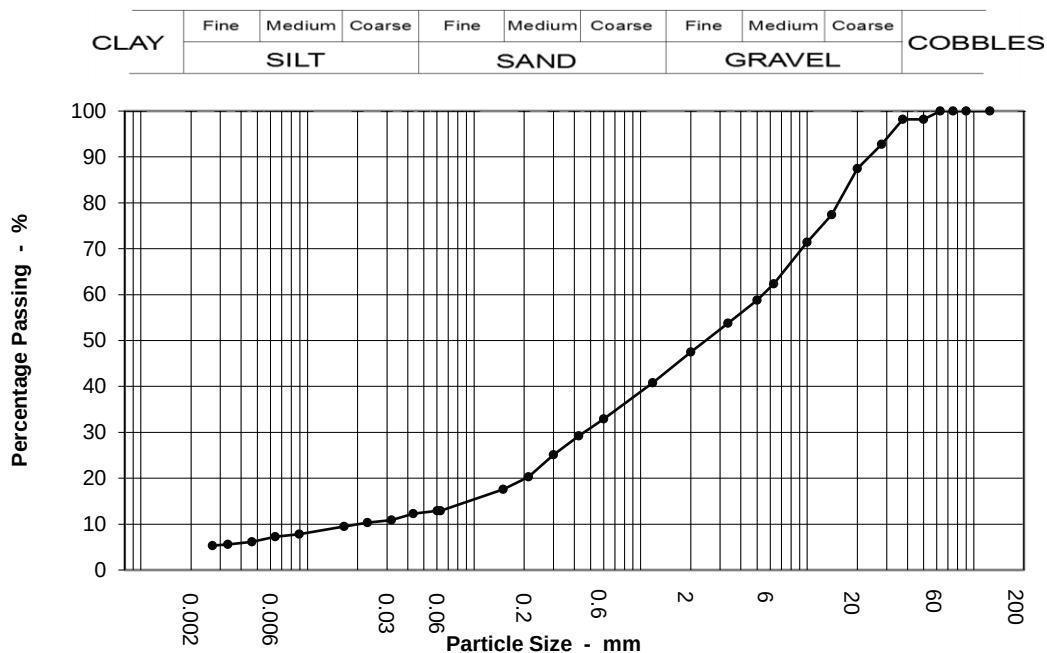
0.30 m

Soil Description

Clayey very sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.060	13
90	100	0.043	12
75	100	0.032	11
63	100	0.023	10
50	98	0.017	10
37.5	98	0.009	8
28	93	0.006	7
20	87	0.005	6
14	77	0.003	6
10	71	0.003	5
6.3	62	0.001	4
5	59		
3.35	54		
2	47		
1.18	41		
0.6	33		
0.425	29		
0.3	25		
0.212	20		
0.15	18		
0.063	13		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	0.0
Gravel	53.0
Sand	35.0
Silt	8.0
Clay	5.0

Grading Analysis	
D100	63.00
D60	5.41
D10	0.02
Uniformity Coefficient	270.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP303

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

4

Depth

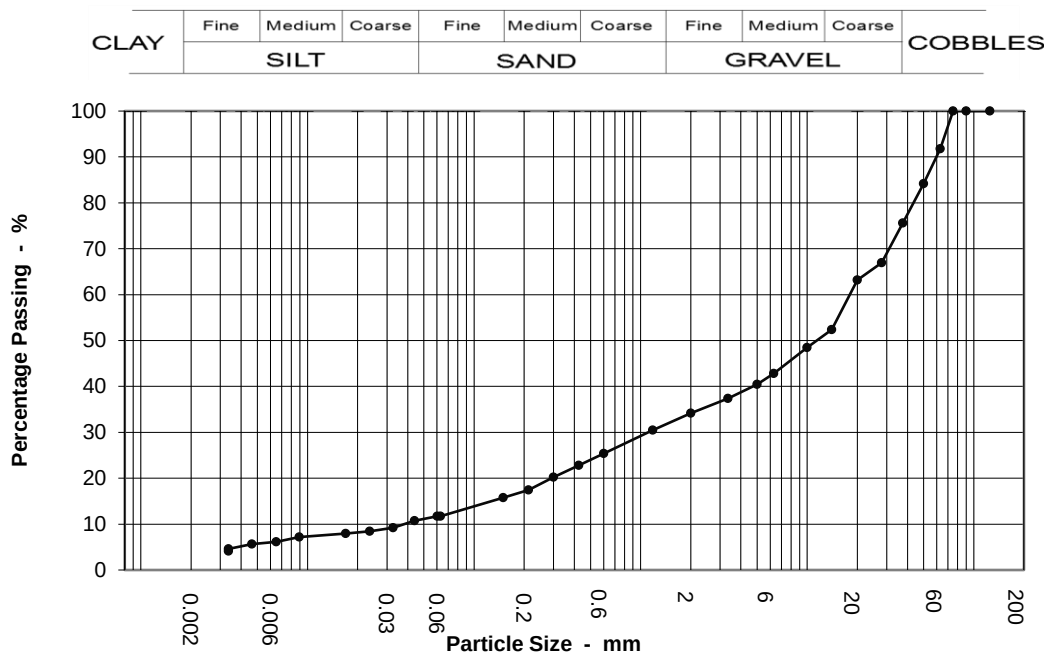
1.00 m

Soil Description

Silty very gravelly SAND with low cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.060	12
90	100	0.044	11
75	100	0.033	9
63	92	0.024	8
50	84	0.017	8
37.5	76	0.009	7
28	67	0.006	6
20	63	0.005	6
14	52	0.003	5
10	48	0.003	4
6.3	43	0.002	3
5	40		
3.35	37		
2	34		
1.18	30		
0.6	25		
0.425	23		
0.3	20		
0.212	17		
0.15	16		
0.063	12		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	8.0
Gravel	58.0
Sand	22.0
Silt	8.0
Clay	3.0

Grading Analysis	
D100	75.00
D60	18.00
D10	0.04
Uniformity Coefficient	470.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP304

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

5

Depth

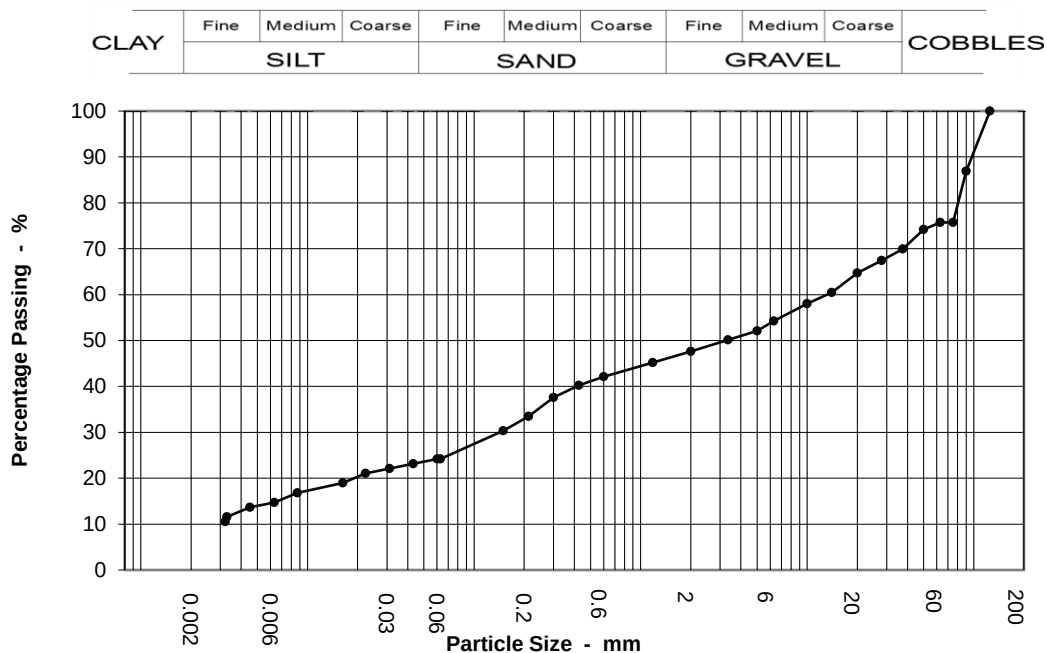
0.80 m

Soil Description

Slightly sandy slightly gravelly CLAY with medium cobble
content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.060	24
90	87	0.043	23
75	76	0.031	22
63	76	0.022	21
50	74	0.016	19
37.5	70	0.009	17
28	67	0.006	15
20	65	0.005	14
14	60	0.003	12
10	58	0.003	11
6.3	54	0.002	6
5	52		
3.35	50		
2	48		
1.18	45		
0.6	42		
0.425	40		
0.3	38		
0.212	33		
0.15	30		
0.063	24		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	24.0
Gravel	28.0
Sand	23.0
Silt	16.0
Clay	8.0

Grading Analysis	
D100	125.00
D60	13.10
D10	0.00
Uniformity Coefficient	4500.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP304

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

7

Depth

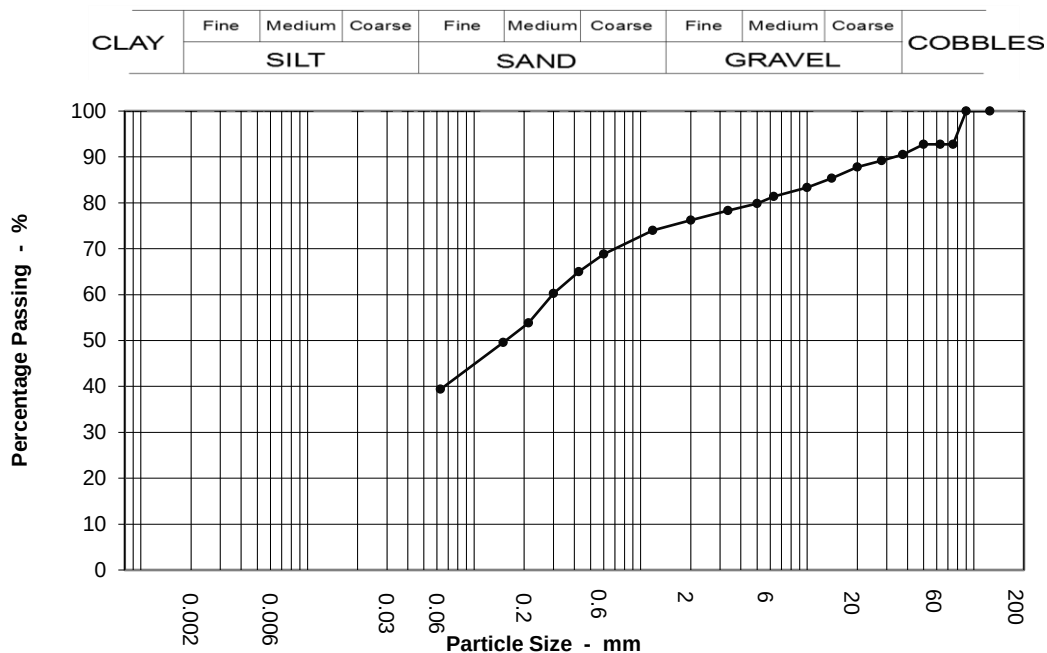
2.00 m

Soil Description

Slightly gravelly sandy SILT with low cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	93		
63	93		
50	93		
37.5	91		
28	89		
20	88		
14	85		
10	83		
6.3	81		
5	80		
3.35	78		
2	76		
1.18	74		
0.6	69		
0.425	65		
0.3	60		
0.212	54		
0.15	50		
0.063	39		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	7.0
Gravel	17.0
Sand	37.0
Silt & Clay	39.0

Grading Analysis	
D100	90.00
D60	0.30
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP305

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

4

Depth

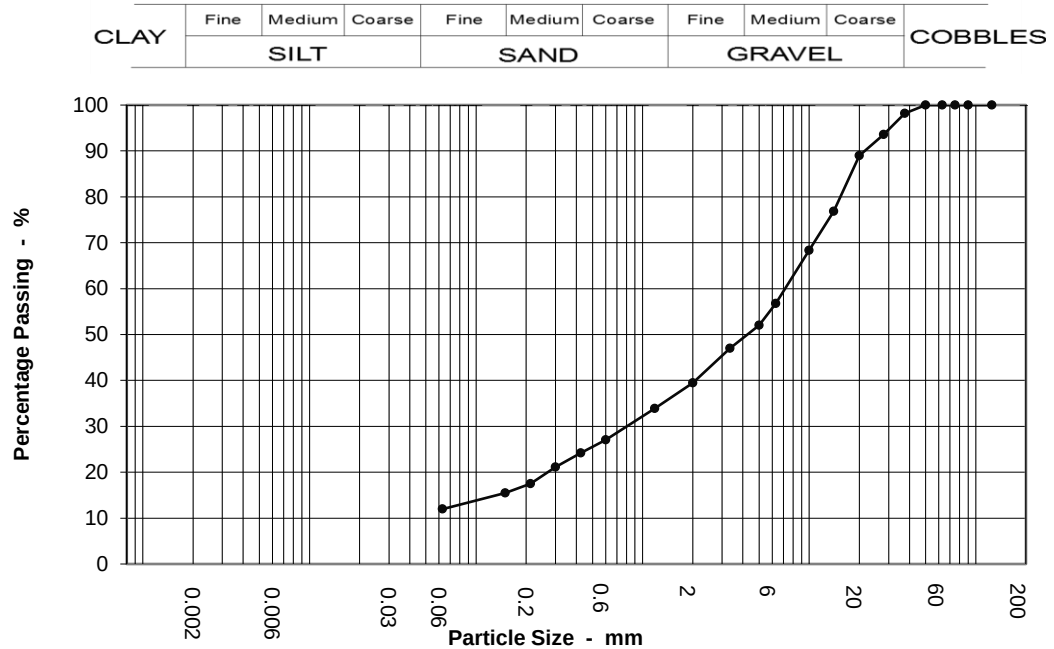
0.50 m

Soil Description

Clayey very sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	98		
28	94		
20	89		
14	77		
10	68		
6.3	57		
5	52		
3.35	47		
2	39		
1.18	34		
0.6	27		
0.425	24		
0.3	21		
0.212	18		
0.15	15		
0.063	12		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	61.0
Sand	27.0
Silt & Clay	12.0

Grading Analysis	
D100	50.00
D60	7.17
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP305

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

6

Depth

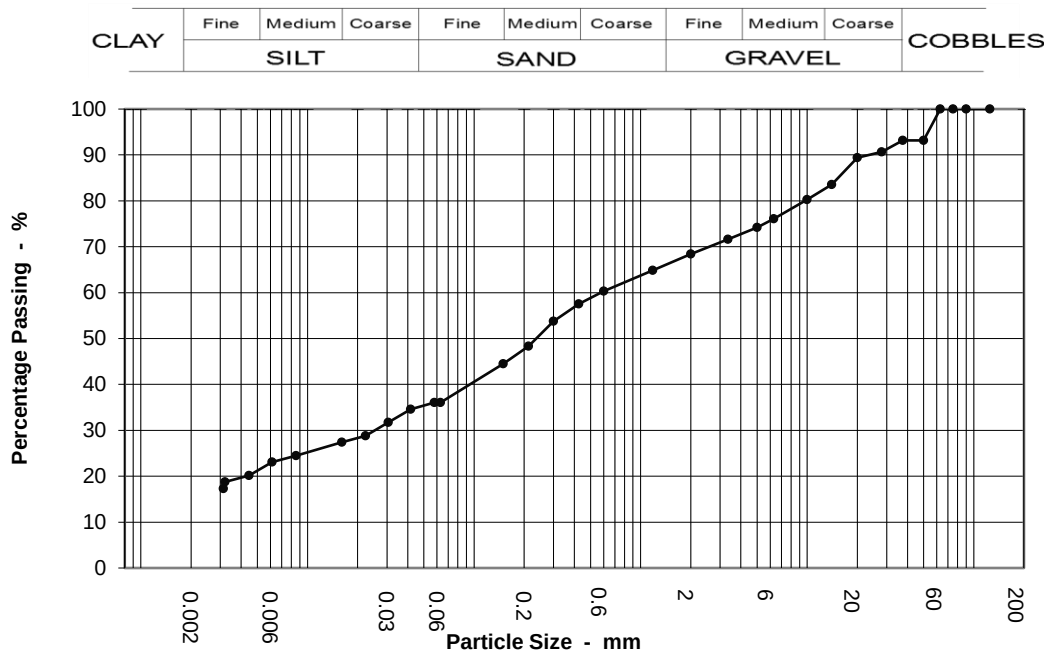
1.00 m

Soil Description

Slightly sandy slightly gravelly CLAY

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.058	36
90	100	0.042	35
75	100	0.031	32
63	100	0.022	29
50	93	0.016	27
37.5	93	0.009	24
28	91	0.006	23
20	89	0.004	20
14	84	0.003	19
10	80	0.003	17
6.3	76	0.002	13
5	74		
3.35	72		
2	68		
1.18	65		
0.6	60		
0.425	58		
0.3	54		
0.212	48		
0.15	44		
0.063	36		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	0.0
Gravel	32.0
Sand	32.0
Silt	21.0
Clay	15.0

Grading Analysis	
D100	63.00
D60	0.58
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP306

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

4

Depth

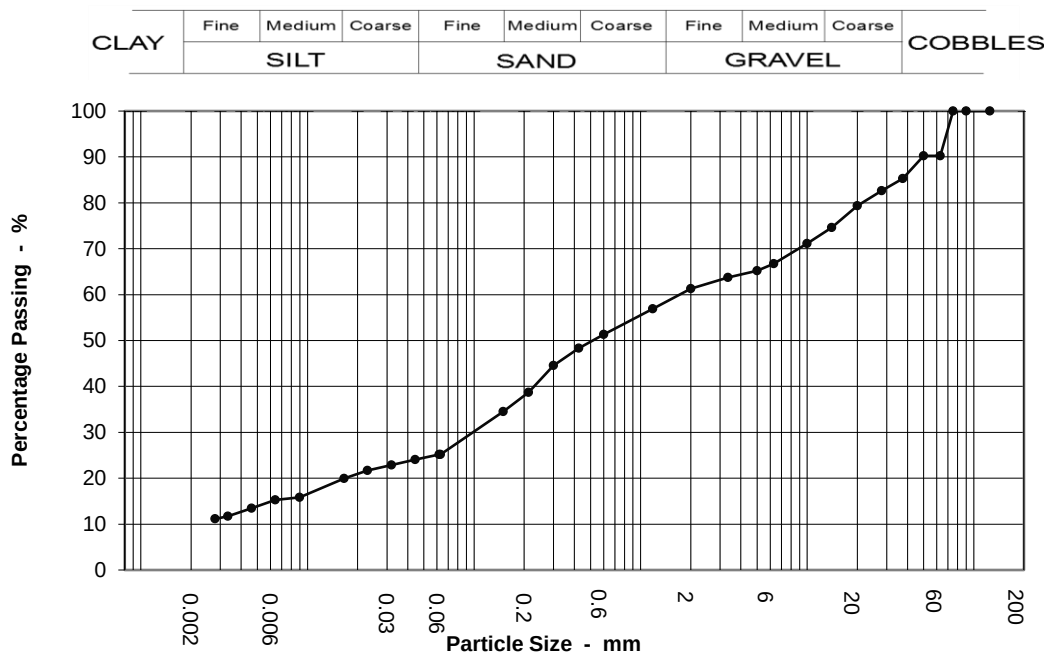
1.50 m

Soil Description

Very clayey very gravelly SAND with medium cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.062	25
90	100	0.044	24
75	100	0.032	23
63	90	0.023	22
50	90	0.017	20
37.5	85	0.009	16
28	83	0.006	15
20	79	0.005	13
14	75	0.003	12
10	71	0.003	11
6.3	67	0.001	8
5	65		
3.35	64		
2	61		
1.18	57		
0.6	51		
0.425	48		
0.3	45		
0.212	39		
0.15	34		
0.063	25		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	10.0
Gravel	29.0
Sand	36.0
Silt	16.0
Clay	10.0

Grading Analysis	
D100	75.00
D60	1.71
D10	0.00
Uniformity Coefficient	780.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP307

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

1

Depth

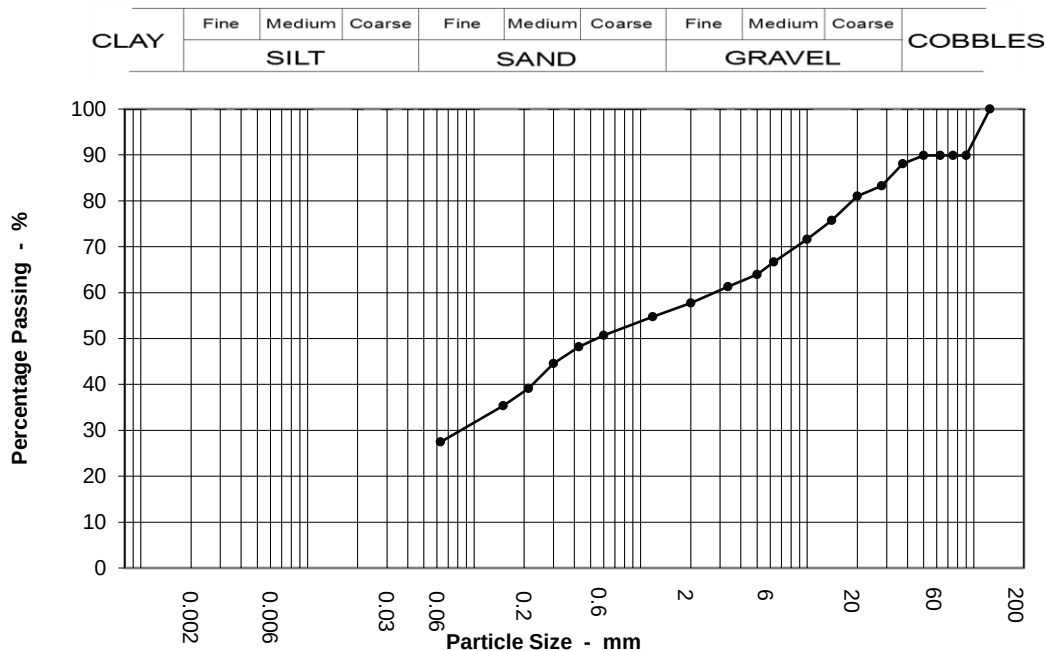
0.50 m

Soil Description

Very clayey very gravelly SAND with medium cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	90		
75	90		
63	90		
50	90		
37.5	88		
28	83		
20	81		
14	76		
10	72		
6.3	67		
5	64		
3.35	61		
2	58		
1.18	55		
0.6	51		
0.425	48		
0.3	45		
0.212	39		
0.15	35		
0.063	27		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	10.0
Gravel	32.0
Sand	30.0
Silt & Clay	27.0

Grading Analysis	
D100	125.00
D60	2.78
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP307

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

7

Depth

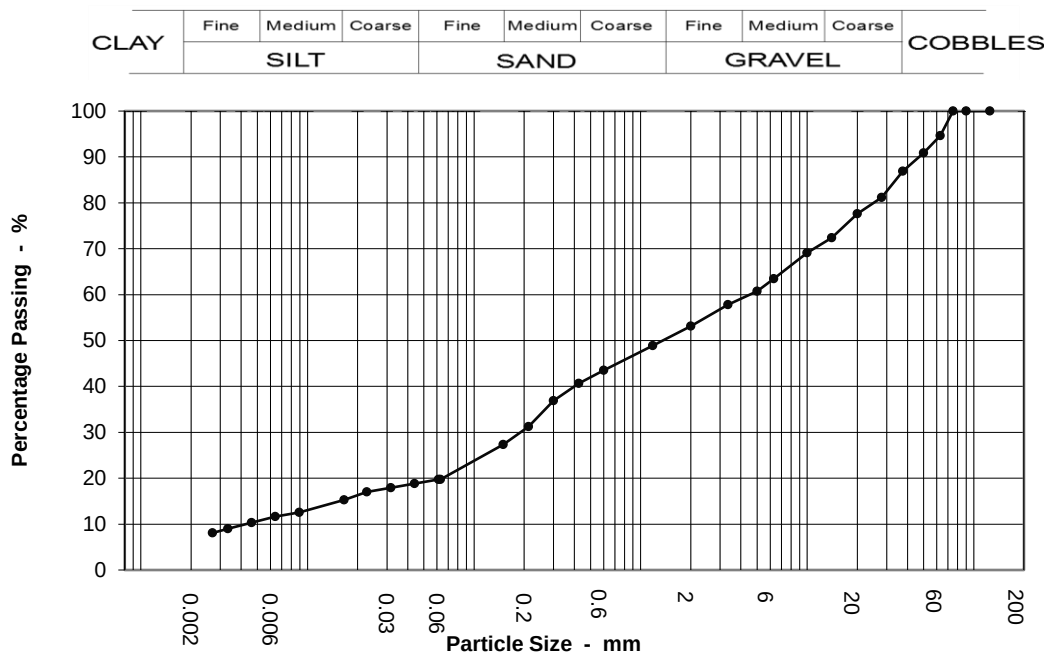
2.00 m

Soil Description

Very clayey very sandy GRAVEL with low cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.061	20
90	100	0.044	19
75	100	0.032	18
63	95	0.023	17
50	91	0.017	15
37.5	87	0.009	13
28	81	0.006	12
20	78	0.005	10
14	72	0.003	9
10	69	0.003	8
6.3	63	0.001	6
5	61		
3.35	58		
2	53		
1.18	49		
0.6	44		
0.425	41		
0.3	37		
0.212	31		
0.15	27		
0.063	20		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	5.0
Gravel	42.0
Sand	33.0
Silt	13.0
Clay	7.0

Grading Analysis	
D100	75.00
D60	4.53
D10	0.00
Uniformity Coefficient	1100.00



Grading Analysis	
D100	75.00
D60	0.46
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP308

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

7

Depth

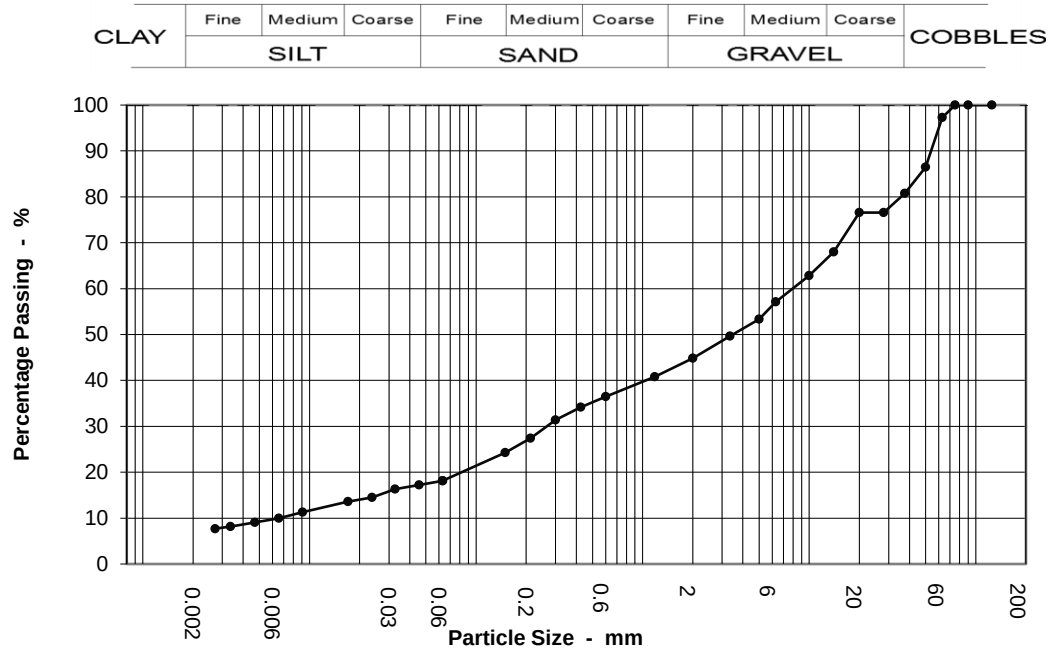
2.00 m

Soil Description

Silty very sandy GRAVEL with low cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.063	18
90	100	0.045	17
75	100	0.033	16
63	97	0.024	14
50	86	0.017	14
37.5	81	0.009	11
28	77	0.007	10
20	77	0.005	9
14	68	0.003	8
10	63	0.003	8
6.3	57	0.001	5
5	53		
3.35	50		
2	45		
1.18	41		
0.6	36		
0.425	34		
0.3	31		
0.212	27		
0.15	24		
0.063	18		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	3.0
Gravel	52.0
Sand	27.0
Silt	12.0
Clay	7.0

Grading Analysis	
D100	75.00
D60	7.95
D10	0.01
Uniformity Coefficient	1200.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP309

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

4

Depth

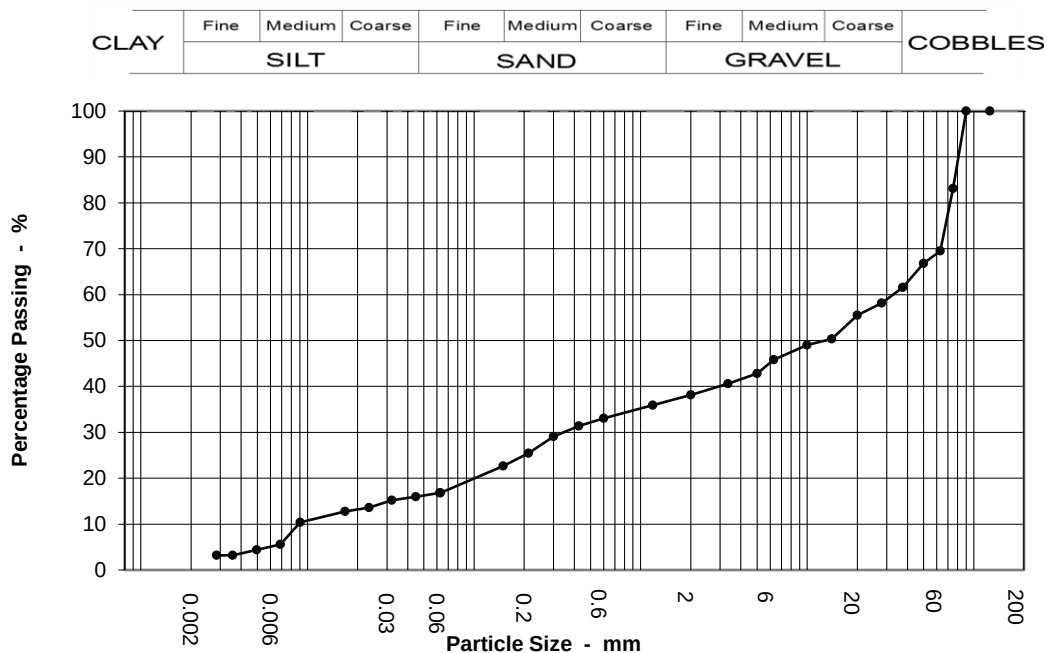
1.00 m

Soil Description

Very clayey very sandy GRAVEL with low cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.062	17
90	100	0.045	16
75	83	0.032	15
63	70	0.023	14
50	67	0.017	13
37.5	62	0.009	10
28	58	0.007	6
20	55	0.005	4
14	50	0.004	3
10	49	0.003	3
6.3	46	0.002	2
5	43		
3.35	41		
2	38		
1.18	36		
0.6	33		
0.425	31		
0.3	29		
0.212	25		
0.15	23		
0.063	17		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	30.0
Gravel	31.0
Sand	21.0
Silt	14.0
Clay	3.0

Grading Analysis	
D100	90.00
D60	32.70
D10	0.01
Uniformity Coefficient	3700.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP310

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

3

Depth

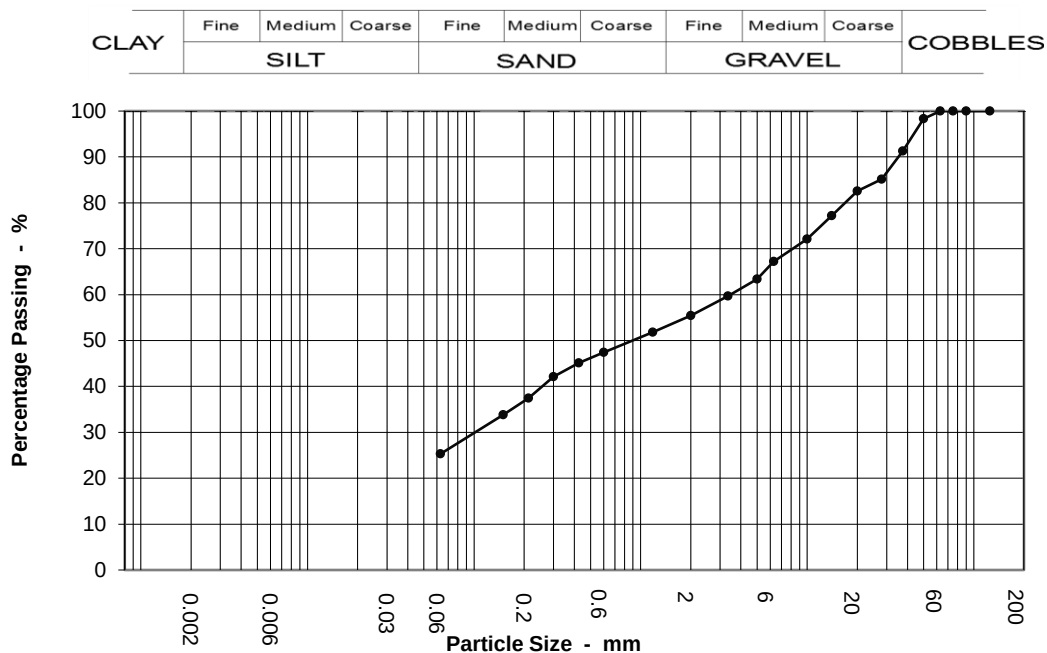
0.80 m

Soil Description

Very clayey very sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	98		
37.5	91		
28	85		
20	83		
14	77		
10	72		
6.3	67		
5	63		
3.35	60		
2	55		
1.18	52		
0.6	47		
0.425	45		
0.3	42		
0.212	37		
0.15	34		
0.063	25		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	45.0
Sand	30.0
Silt & Clay	25.0

Grading Analysis	
D100	63.00
D60	3.47
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP311

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

1

Depth

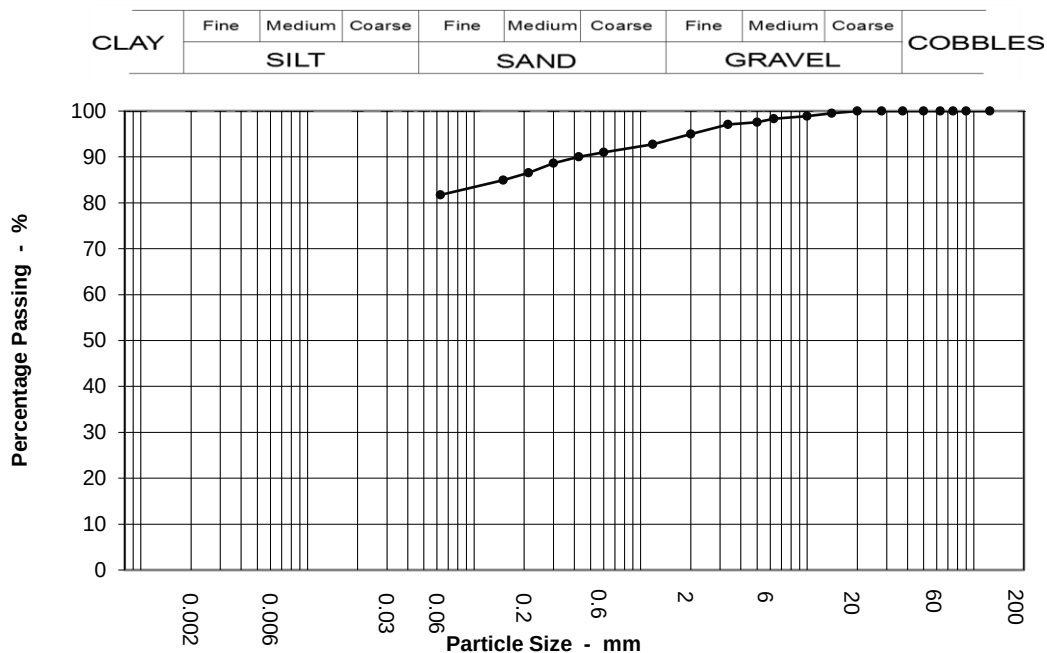
0.50 m

Soil Description

Slightly gravelly slightly sandy SILT

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	99		
6.3	98		
5	98		
3.35	97		
2	95		
1.18	93		
0.6	91		
0.425	90		
0.3	89		
0.212	87		
0.15	85		
0.063	82		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	5.0
Sand	13.0
Silt & Clay	82.0

Grading Analysis	
D100	20.00
D60	
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP311

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

4

Depth

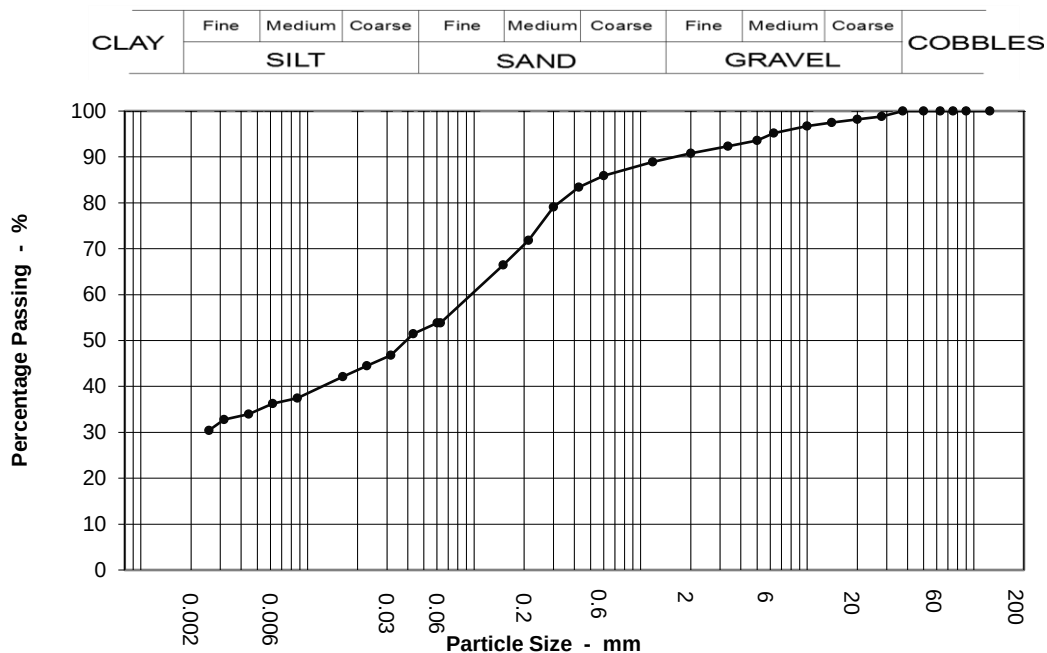
1.00 m

Soil Description

Slightly gravelly sandy CLAY

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.060	54
90	100	0.043	51
75	100	0.032	47
63	100	0.023	44
50	100	0.016	42
37.5	100	0.009	37
28	99	0.006	36
20	98	0.004	34
14	97	0.003	33
10	97	0.003	30
6.3	95	0.001	28
5	94		
3.35	92		
2	91		
1.18	89		
0.6	86		
0.425	83		
0.3	79		
0.212	72		
0.15	66		
0.063	54		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	0.0
Gravel	9.0
Sand	37.0
Silt	24.0
Clay	29.0

Grading Analysis	
D100	37.50
D60	0.10
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP312

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

1

Depth

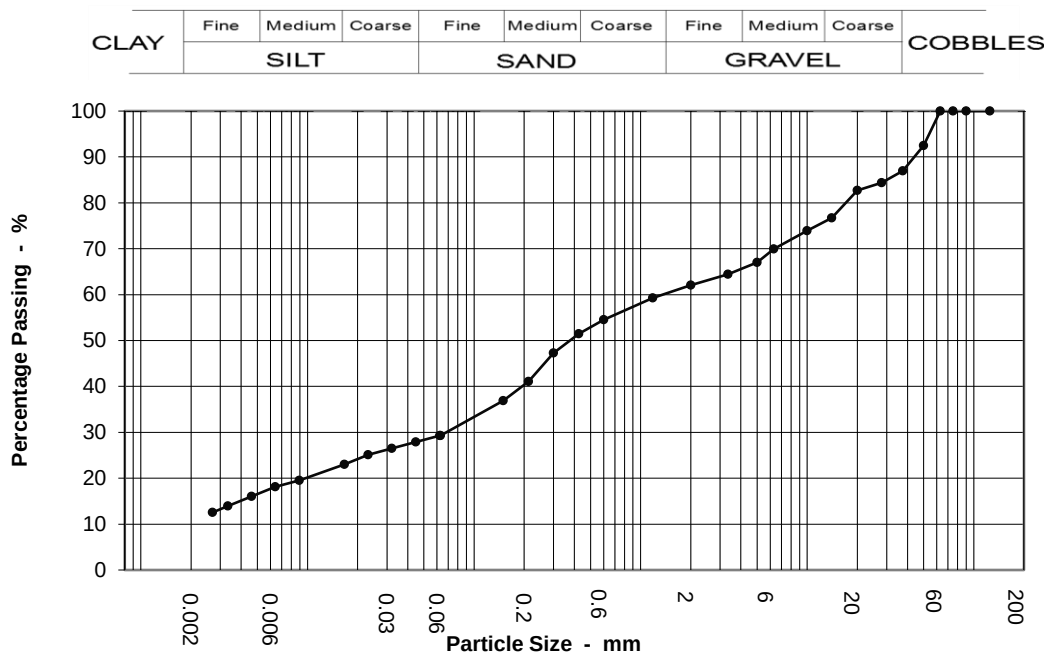
0.50 m

Soil Description

Very silty very sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.062	29
90	100	0.045	28
75	100	0.032	26
63	100	0.023	25
50	92	0.017	23
37.5	87	0.009	20
28	84	0.006	18
20	83	0.005	16
14	77	0.003	14
10	74	0.003	13
6.3	70	0.002	10
5	67		
3.35	64		
2	62		
1.18	59		
0.6	55		
0.425	51		
0.3	47		
0.212	41		
0.15	37		
0.063	29		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	0.0
Gravel	38.0
Sand	33.0
Silt	18.0
Clay	11.0

Grading Analysis	
D100	63.00
D60	1.35
D10	0.00
Uniformity Coefficient	850.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP312

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

7

Depth

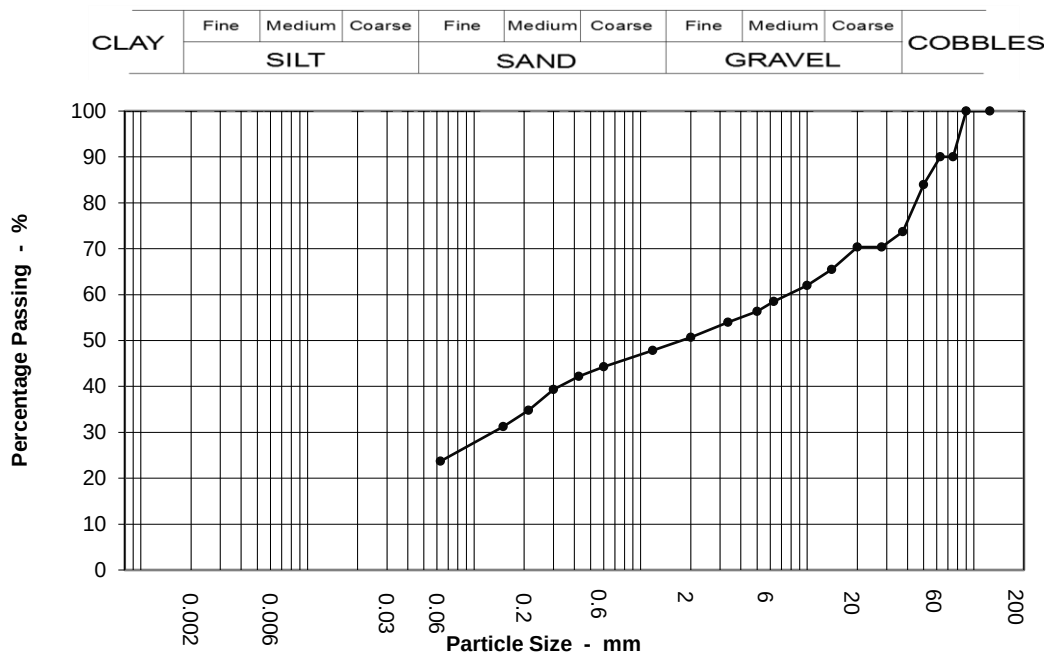
2.00 m

Soil Description

Very silty very sandy GRAVEL with medium cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	90		
63	90		
50	84		
37.5	74		
28	70		
20	70		
14	65		
10	62		
6.3	59		
5	56		
3.35	54		
2	51		
1.18	48		
0.6	44		
0.425	42		
0.3	39		
0.212	35		
0.15	31		
0.063	24		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	10.0
Gravel	39.0
Sand	27.0
Silt & Clay	24.0

Grading Analysis	
D100	90.00
D60	7.68
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP313

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

4

Depth

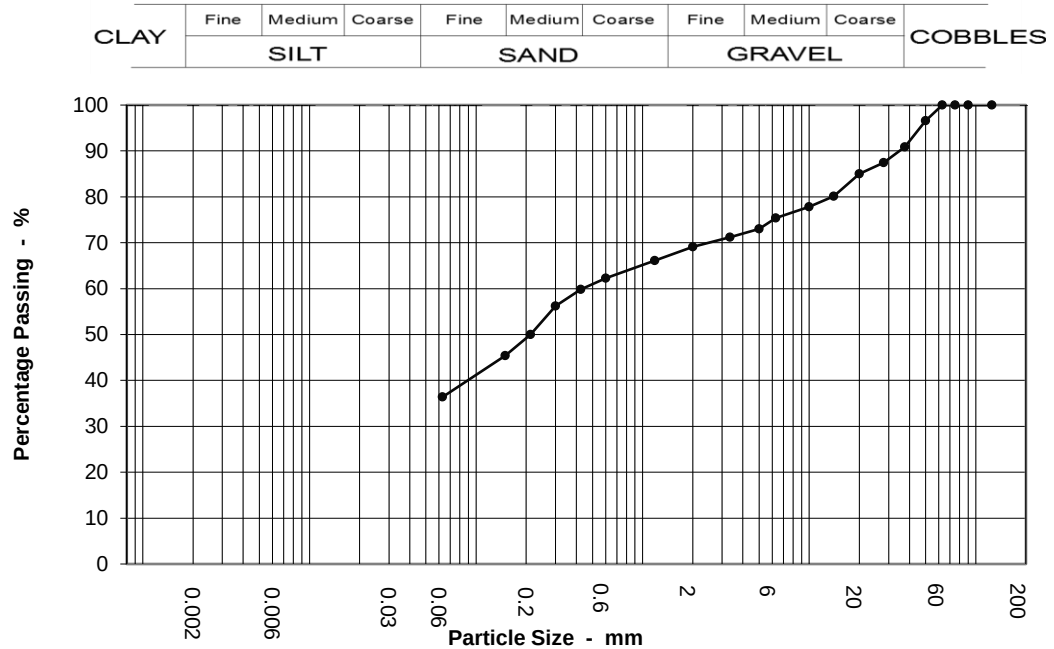
1.00 m

Soil Description

Slightly gravelly slightly sandy CLAY

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	97		
37.5	91		
28	87		
20	85		
14	80		
10	78		
6.3	75		
5	73		
3.35	71		
2	69		
1.18	66		
0.6	62		
0.425	60		
0.3	56		
0.212	50		
0.15	45		
0.063	36		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	31.0
Sand	33.0
Silt & Clay	36.0

Grading Analysis	
D100	63.00
D60	0.43
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP314

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

4

Depth

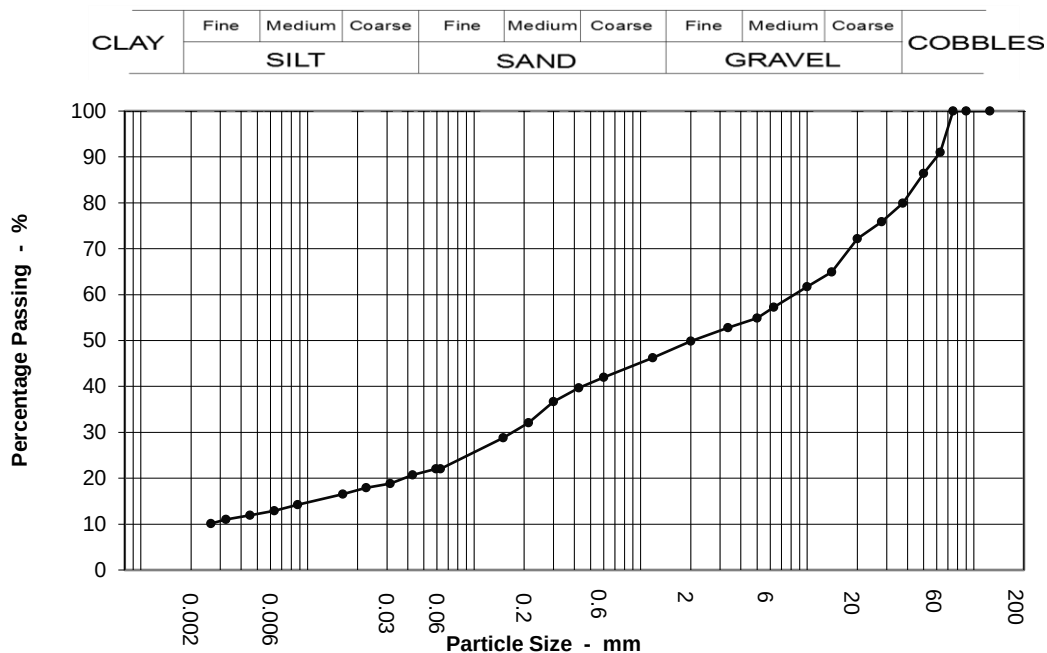
1.00 m

Soil Description

Very clayey very sandy GRAVEL with low cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.059	22
90	100	0.043	21
75	100	0.031	19
63	91	0.023	18
50	86	0.016	17
37.5	80	0.009	14
28	76	0.006	13
20	72	0.005	12
14	65	0.003	11
10	62	0.003	10
6.3	57	0.001	8
5	55		
3.35	53		
2	50		
1.18	46		
0.6	42		
0.425	40		
0.3	37		
0.212	32		
0.15	29		
0.063	22		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	9.0
Gravel	41.0
Sand	28.0
Silt	13.0
Clay	9.0

Grading Analysis	
D100	75.00
D60	8.38
D10	0.00
Uniformity Coefficient	3300.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP315

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

4

Depth

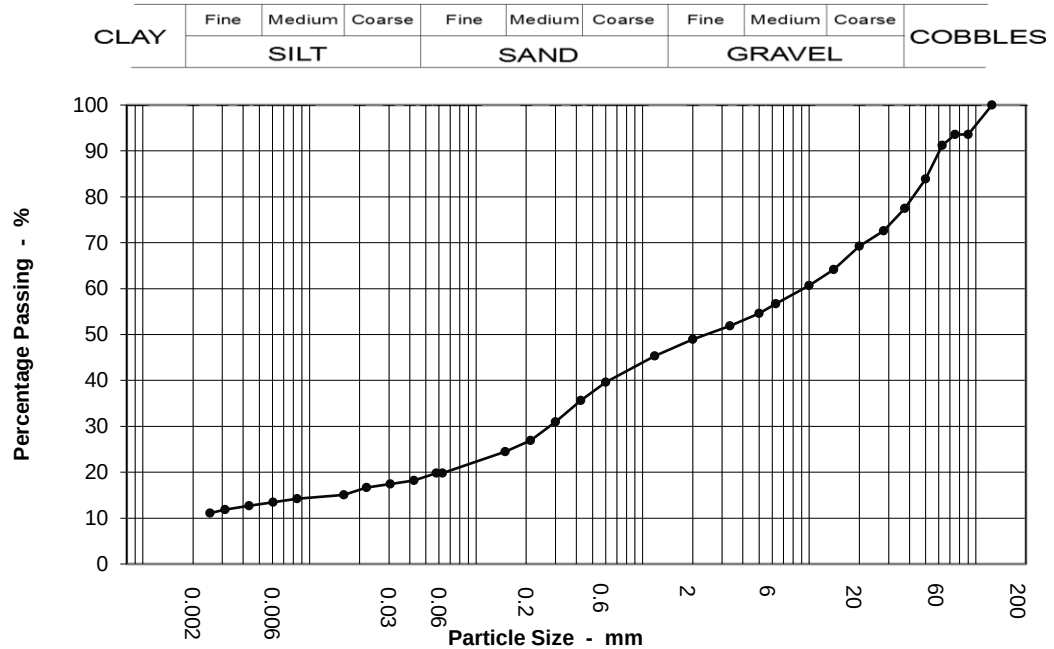
1.00 m

Soil Description

Very clayey very sandy GRAVEL with low cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.058	20
90	94	0.042	18
75	94	0.031	17
63	91	0.022	17
50	84	0.016	15
37.5	78	0.008	14
28	73	0.006	13
20	69	0.004	13
14	64	0.003	12
10	61	0.003	11
6.3	57	0.001	9
5	55		
3.35	52		
2	49		
1.18	45		
0.6	40		
0.425	36		
0.3	31		
0.212	27		
0.15	24		
0.063	20		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	9.0
Gravel	42.0
Sand	29.0
Silt	10.0
Clay	10.0

Grading Analysis	
D100	125.00
D60	9.27
D10	0.00
Uniformity Coefficient	4800.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP316

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

3

Depth

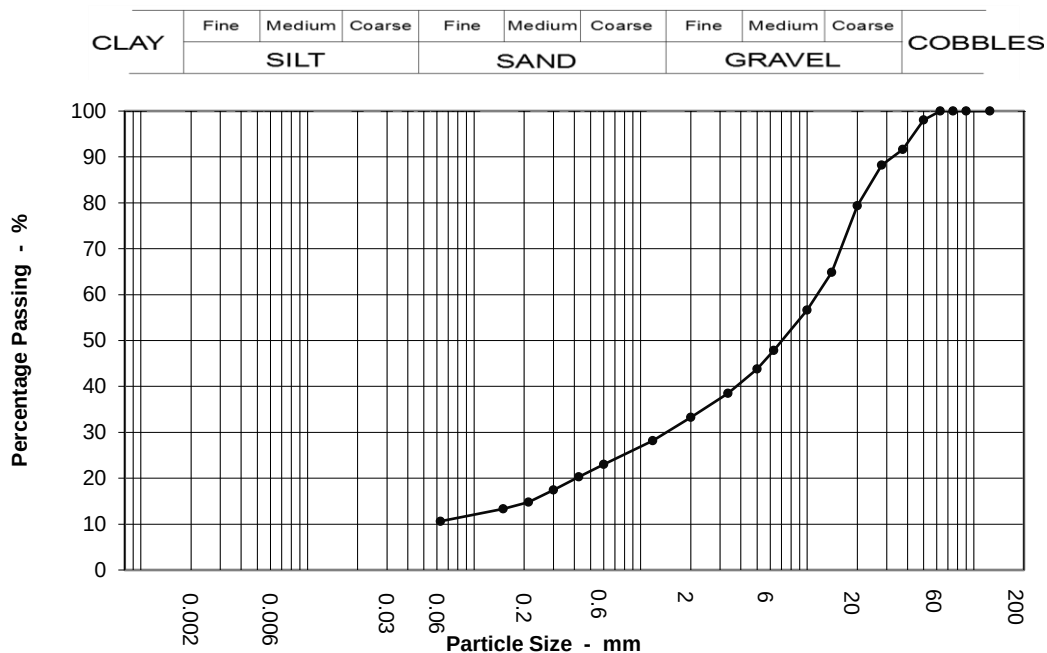
0.50 m

Soil Description

Clayey very sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	98		
37.5	92		
28	88		
20	79		
14	65		
10	57		
6.3	48		
5	44		
3.35	38		
2	33		
1.18	28		
0.6	23		
0.425	20		
0.3	17		
0.212	15		
0.15	13		
0.063	11		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	67.0
Sand	23.0
Silt & Clay	11.0

Grading Analysis	
D100	63.00
D60	11.50
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP316

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

4

Depth

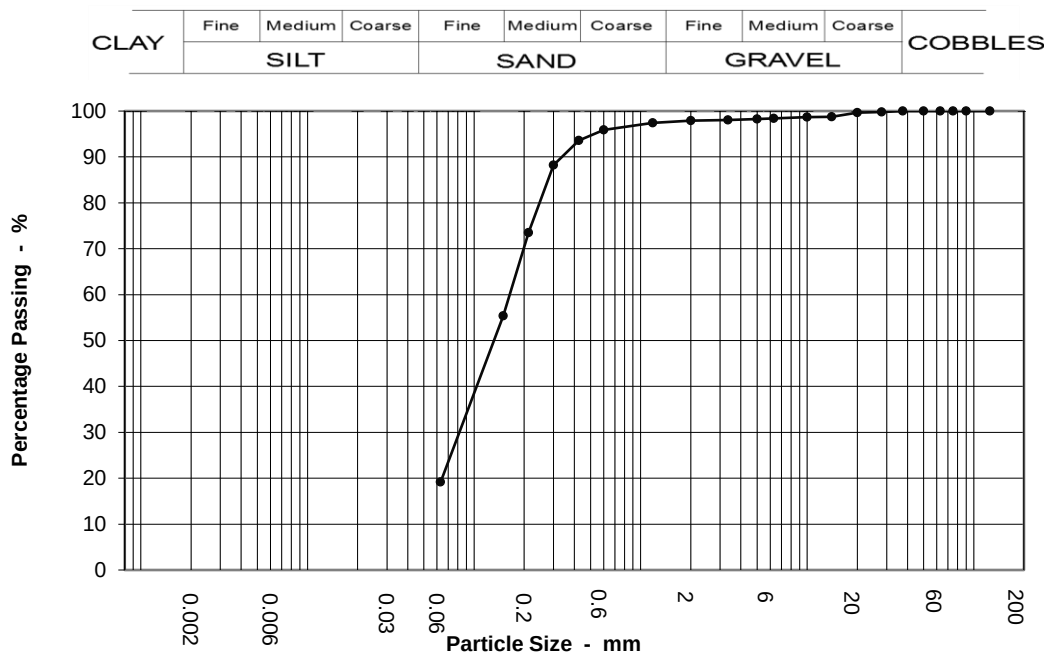
0.80 m

Soil Description

Slightly gravelly silty SAND

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	99		
10	99		
6.3	98		
5	98		
3.35	98		
2	98		
1.18	97		
0.6	96		
0.425	94		
0.3	88		
0.212	73		
0.15	55		
0.063	19		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	2.0
Sand	79.0
Silt & Clay	19.0

Grading Analysis	
D100	37.50
D60	0.16
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP316

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

6

Depth

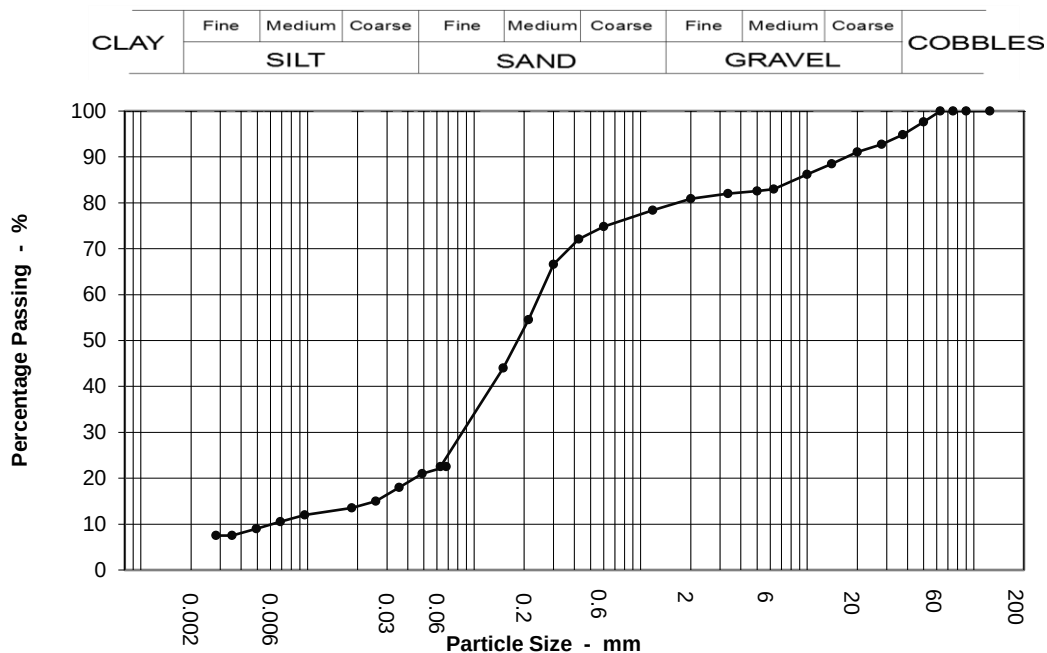
1.20 m

Soil Description

Gravelly very silty SAND

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.068	23
90	100	0.049	21
75	100	0.036	18
63	100	0.026	15
50	98	0.018	14
37.5	95	0.010	12
28	93	0.007	11
20	91	0.005	9
14	89	0.004	8
10	86	0.003	8
6.3	83	0.002	6
5	83		
3.35	82		
2	81		
1.18	78		
0.6	75		
0.425	72		
0.3	67		
0.212	55		
0.15	44		
0.063	23		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	0.0
Gravel	19.0
Sand	58.0
Silt	16.0
Clay	7.0

Grading Analysis	
D100	63.00
D60	0.25
D10	0.01
Uniformity Coefficient	40.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP317

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

4

Depth

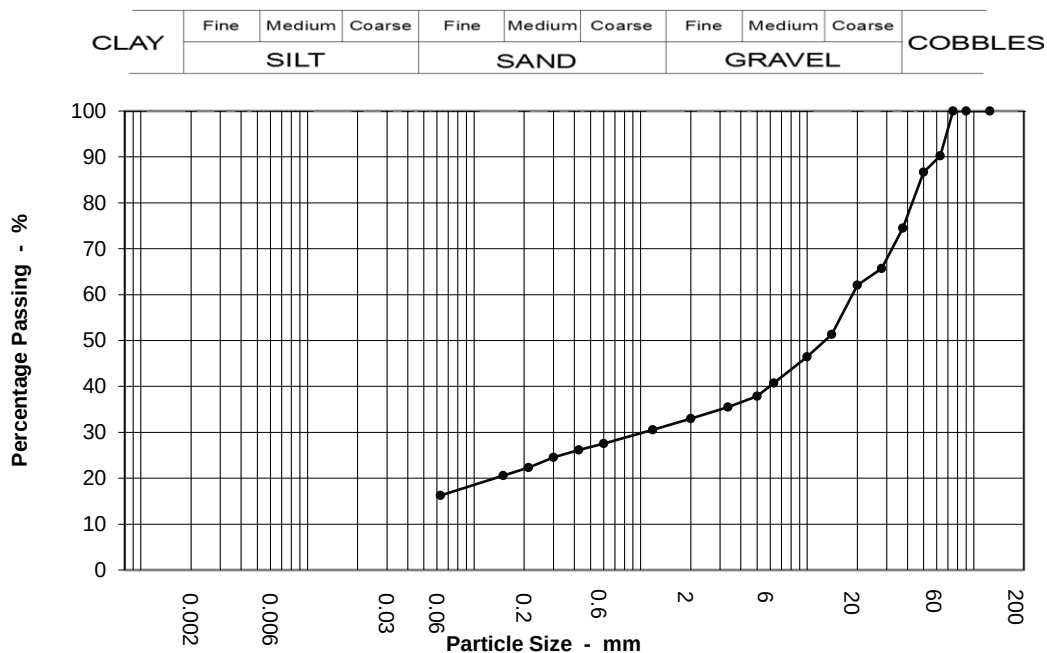
0.80 m

Soil Description

Silty sandy GRAVEL with medium cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	90		
50	87		
37.5	75		
28	66		
20	62		
14	51		
10	46		
6.3	41		
5	38		
3.35	36		
2	33		
1.18	31		
0.6	28		
0.425	26		
0.3	25		
0.212	22		
0.15	21		
0.063	16		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	10.0
Gravel	57.0
Sand	17.0
Silt & Clay	16.0

Grading Analysis	
D100	75.00
D60	18.70
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP317

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

8

Depth

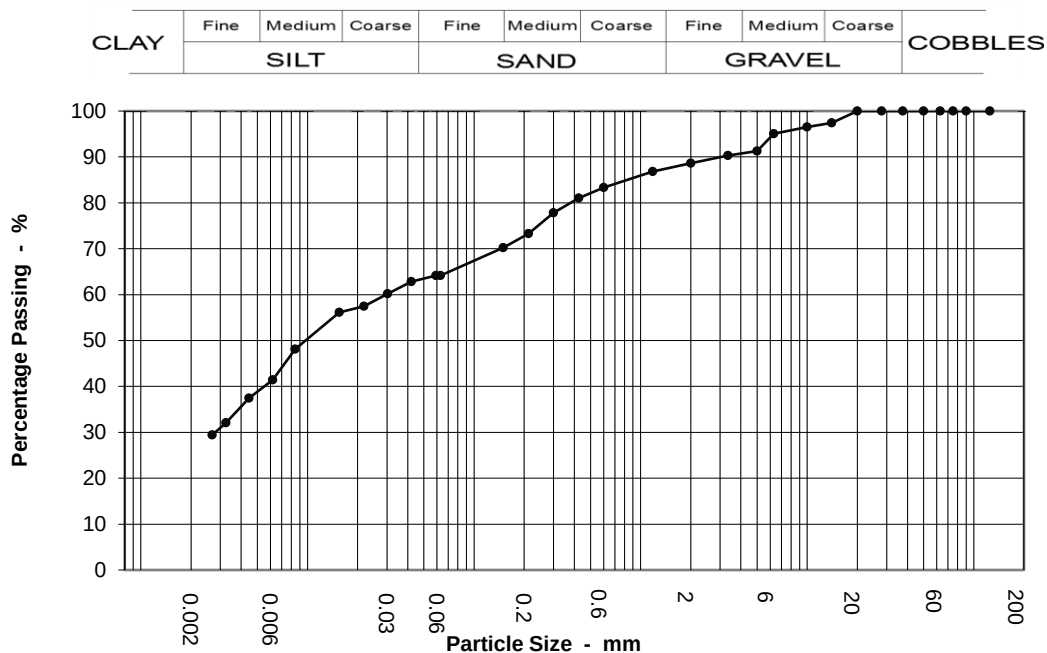
2.50 m

Soil Description

Slightly gravelly slightly sandy CLAY

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.059	64
90	100	0.042	63
75	100	0.030	60
63	100	0.022	57
50	100	0.016	56
37.5	100	0.008	48
28	100	0.006	41
20	100	0.004	37
14	97	0.003	32
10	96	0.003	29
6.3	95	0.001	24
5	91		
3.35	90		
2	89		
1.18	87		
0.6	83		
0.425	81		
0.3	78		
0.212	73		
0.15	70		
0.063	64		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	0.0
Gravel	11.0
Sand	24.0
Silt	37.0
Clay	27.0

Grading Analysis	
D100	20.00
D60	0.03
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP318

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

2

Depth

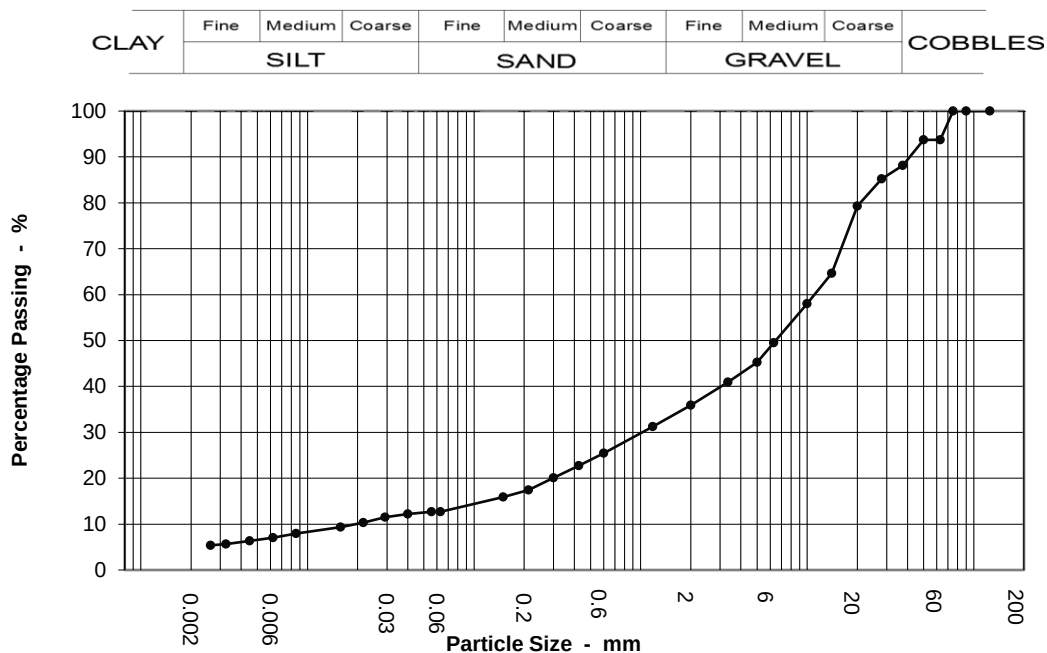
0.20 m

Soil Description

Silty very sandy GRAVEL with low cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.056	13
90	100	0.040	12
75	100	0.029	11
63	94	0.022	10
50	94	0.016	9
37.5	88	0.009	8
28	85	0.006	7
20	79	0.004	6
14	65	0.003	6
10	58	0.003	5
6.3	50	0.001	4
5	45		
3.35	41		
2	36		
1.18	31		
0.6	25		
0.425	23		
0.3	20		
0.212	17		
0.15	16		
0.063	13		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	6.0
Gravel	58.0
Sand	23.0
Silt	8.0
Clay	5.0

Grading Analysis	
D100	75.00
D60	11.10
D10	0.02
Uniformity Coefficient	570.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP319

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

7

Depth

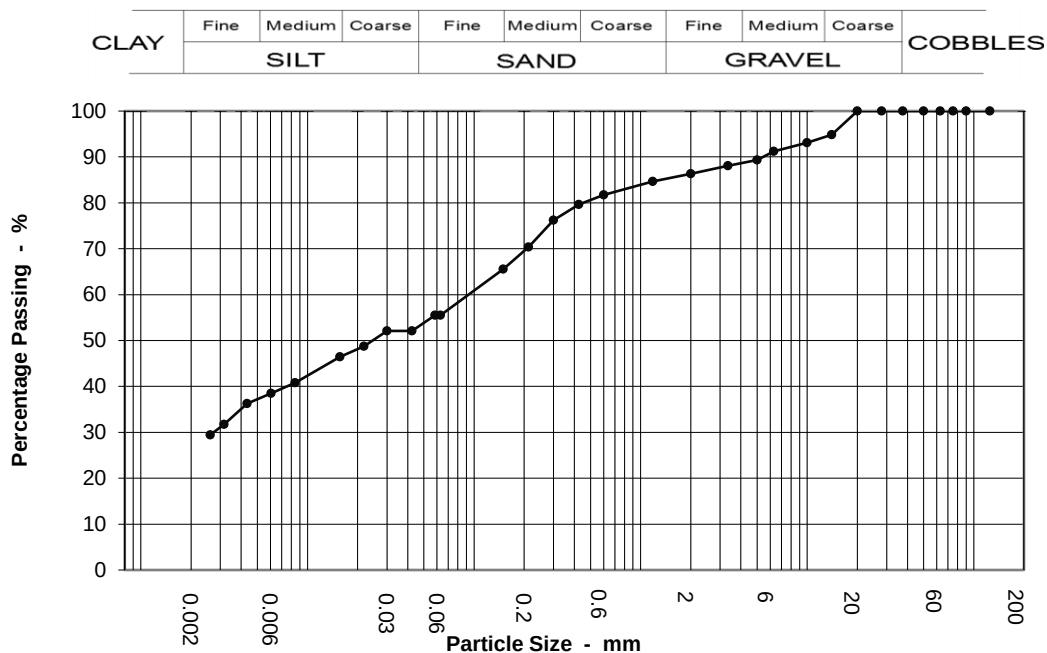
1.60 m

Soil Description

Slightly gravelly slightly sandy CLAY

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.058	56
90	100	0.042	52
75	100	0.030	52
63	100	0.022	49
50	100	0.016	46
37.5	100	0.008	41
28	100	0.006	39
20	100	0.004	36
14	95	0.003	32
10	93	0.003	29
6.3	91	0.001	24
5	89		
3.35	88		
2	86		
1.18	85		
0.6	82		
0.425	80		
0.3	76		
0.212	70		
0.15	66		
0.063	56		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	0.0
Gravel	14.0
Sand	31.0
Silt	29.0
Clay	27.0

Grading Analysis	
D100	20.00
D60	0.09
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP320

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

4

Depth

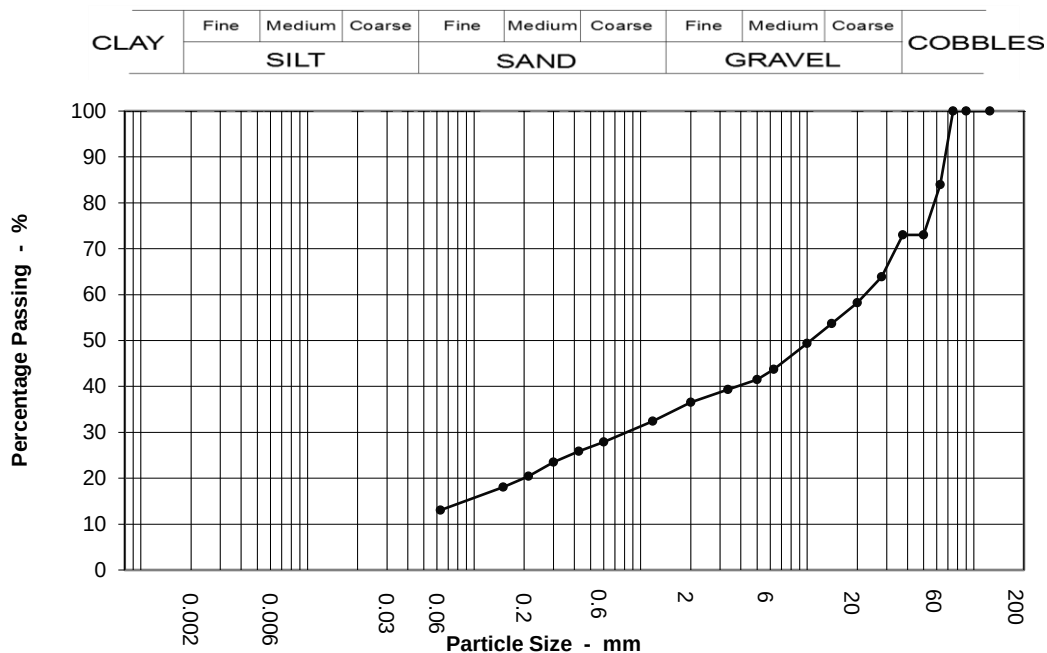
0.80 m

Soil Description

Clayey very sandy GRAVEL with medium cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	84		
50	73		
37.5	73		
28	64		
20	58		
14	54		
10	49		
6.3	44		
5	42		
3.35	39		
2	37		
1.18	32		
0.6	28		
0.425	26		
0.3	24		
0.212	20		
0.15	18		
0.063	13		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	16.0
Gravel	47.0
Sand	23.0
Silt & Clay	13.0

Grading Analysis	
D100	75.00
D60	22.20
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP320

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

6

Depth

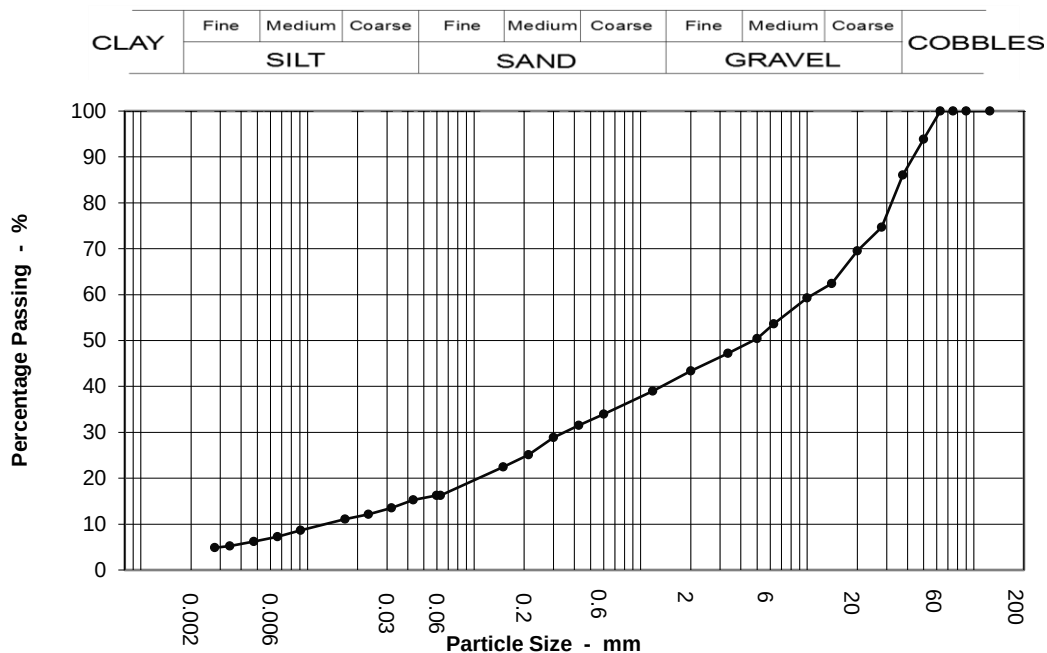
1.80 m

Soil Description

Clayey very sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.060	16
90	100	0.043	15
75	100	0.032	14
63	100	0.023	12
50	94	0.017	11
37.5	86	0.009	9
28	75	0.007	7
20	70	0.005	6
14	62	0.003	5
10	59	0.003	5
6.3	54	0.001	4
5	50		
3.35	47		
2	43		
1.18	39		
0.6	34		
0.425	32		
0.3	29		
0.212	25		
0.15	22		
0.063	16		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	0.0
Gravel	57.0
Sand	27.0
Silt	12.0
Clay	4.0

Grading Analysis	
D100	63.00
D60	10.80
D10	0.01
Uniformity Coefficient	850.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP321

Location

**Cleeves Riverside Quarter Development - Ground
Investigation**

Sample No

3

Depth

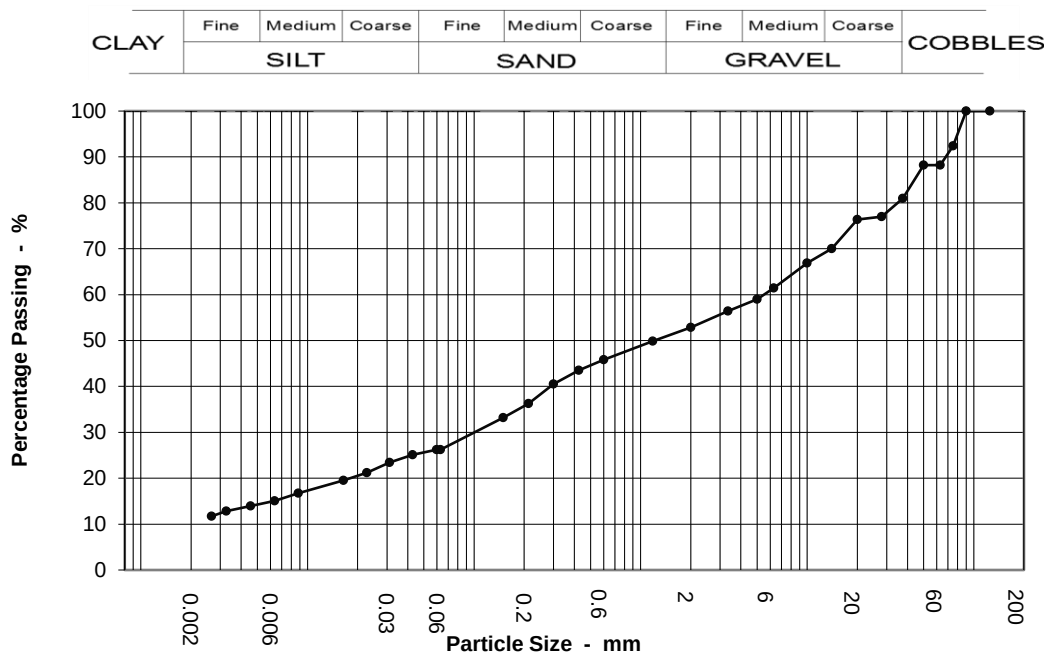
1.50 m

Soil Description

Very clayey very sandy GRAVEL with medium cobble
content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.060	26
90	100	0.043	25
75	92	0.031	23
63	88	0.023	21
50	88	0.016	20
37.5	81	0.009	17
28	77	0.006	15
20	76	0.005	14
14	70	0.003	13
10	67	0.003	12
6.3	61	0.001	11
5	59		
3.35	56		
2	53		
1.18	50		
0.6	46		
0.425	44		
0.3	41		
0.212	36		
0.15	33		
0.063	26		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	12.0
Gravel	35.0
Sand	27.0
Silt	15.0
Clay	11.0

Grading Analysis	
D100	90.00
D60	5.49
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP322

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

3

Depth

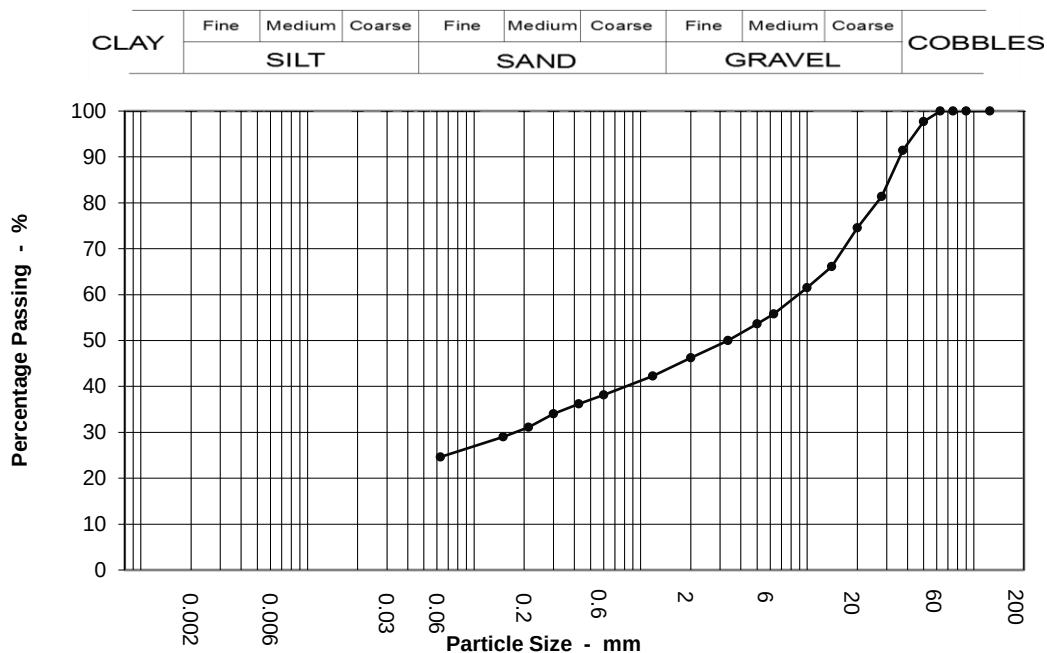
0.80 m

Soil Description

Very sandy very clayey GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	98		
37.5	91		
28	81		
20	75		
14	66		
10	62		
6.3	56		
5	54		
3.35	50		
2	46		
1.18	42		
0.6	38		
0.425	36		
0.3	34		
0.212	31		
0.15	29		
0.063	25		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	54.0
Sand	22.0
Silt & Clay	25.0

Grading Analysis	
D100	63.00
D60	8.85
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP322

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

7

Depth

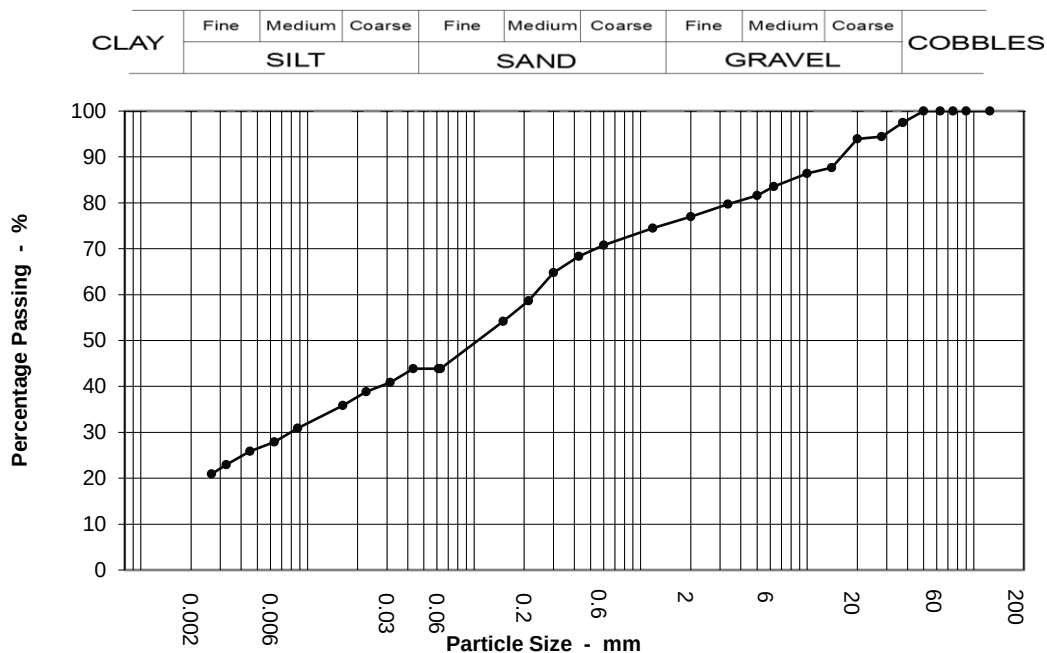
2.00 m

Soil Description

Slightly gravelly slightly sandy SILT

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.061	44
90	100	0.043	44
75	100	0.031	41
63	100	0.023	39
50	100	0.016	36
37.5	97	0.009	31
28	94	0.006	28
20	94	0.005	26
14	88	0.003	23
10	86	0.003	21
6.3	84	0.001	18
5	82		
3.35	80		
2	77		
1.18	75		
0.6	71		
0.425	68		
0.3	65		
0.212	59		
0.15	54		
0.063	44		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	0.0
Gravel	23.0
Sand	33.0
Silt	24.0
Clay	20.0

Grading Analysis	
D100	50.00
D60	0.23
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TP323

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

3

Depth

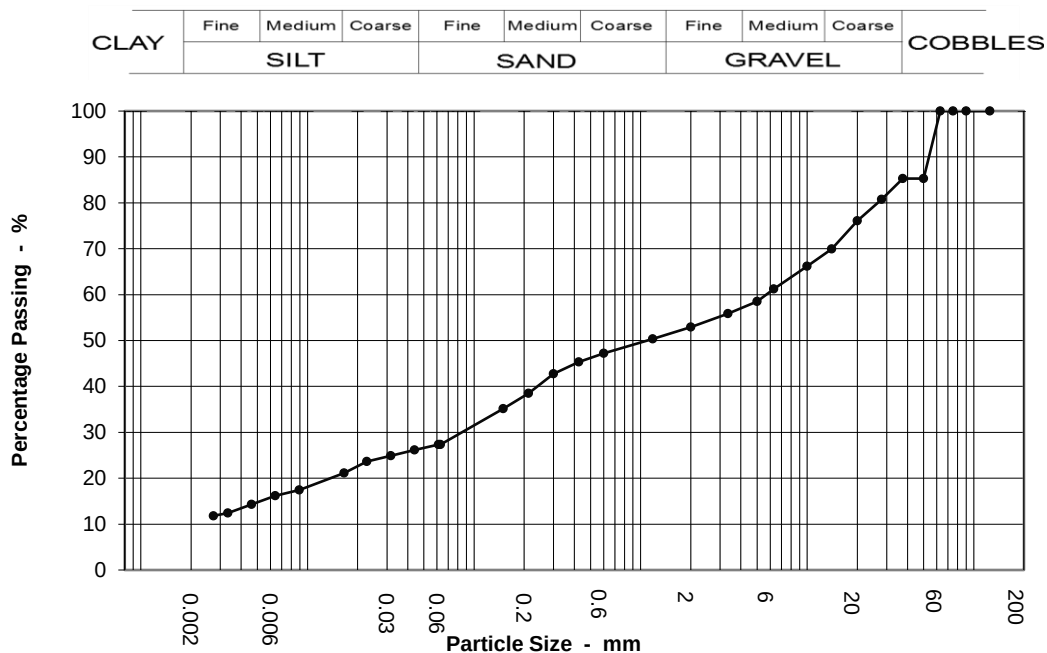
0.80 m

Soil Description

Very sandy very silty GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.061	27
90	100	0.044	26
75	100	0.032	25
63	100	0.023	24
50	85	0.017	21
37.5	85	0.009	17
28	81	0.006	16
20	76	0.005	14
14	70	0.003	12
10	66	0.003	12
6.3	61	0.001	11
5	59		
3.35	56		
2	53		
1.18	50		
0.6	47		
0.425	45		
0.3	43		
0.212	39		
0.15	35		
0.063	27		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	0.0
Gravel	47.0
Sand	26.0
Silt	16.0
Clay	12.0

Grading Analysis	
D100	63.00
D60	5.68
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25019

Borehole / Pit
No

TPBH302

Location

Cleeves Riverside Quarter Development - Ground
Investigation

Sample No

2

Depth

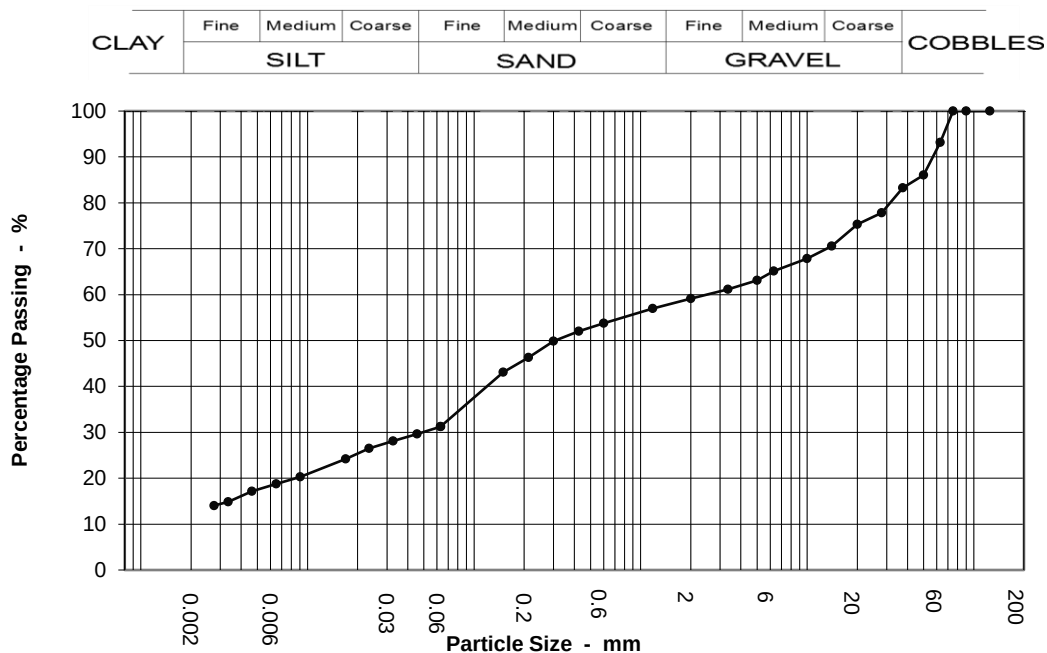
0.30 m

Soil Description

Slightly sandy gravelly CLAY with low cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.063	31
90	100	0.045	30
75	100	0.033	28
63	93	0.023	27
50	86	0.017	24
37.5	83	0.009	20
28	78	0.006	19
20	75	0.005	17
14	71	0.003	15
10	68	0.003	14
6.3	65	0.001	12
5	63		
3.35	61		
2	59		
1.18	57		
0.6	54		
0.425	52		
0.3	50		
0.212	46		
0.15	43		
0.063	31		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	7.0
Gravel	34.0
Sand	28.0
Silt	18.0
Clay	13.0

Grading Analysis	
D100	75.00
D60	2.50
D10	
Uniformity Coefficient	



Final Report

Report No.: 25-17689-1

Initial Date of Issue: 18-Jun-2025

Re-Issue Details:

Client *Priority Geotechnical Ltd*

Client Address: *Unit 12
Owenacurra Business Park
Midleton
County Cork
Ireland*

Contact(s): *Colette Kelly*

Project *P25019 Cleeves*

Quotation No.: *Q23-32607*

Date Received: 28-May-2025

Order No.: 16776

Date Instructed: 28-May-2025

No. of Samples: 18

Turnaround (Wkdays): 5

Results Due: 03-Jun-2025

Date Approved: 18-Jun-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:						25-17689	25-17689	25-17689	25-17689	25-17689	25-17689
Quotation No.: Q23-32607		Chemtest Sample ID.:						1979249	1979250	1979251	1979252	1979253	1979254
		Client Reference:						BH301	TP303	TP304	TP305	TP307	BH316
		Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):						1.00	1.00	2.00	1.00	2.00	3.05
		Bottom Depth (m):						1.50	1.50				3.90
		Date Sampled:						22-May-2025	22-May-2025	22-May-2025	22-May-2025	22-May-2025	22-May-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Moisture		N	2030	%	0.020	18	16	19	15	9.6	12	20	
Soil Colour		N	2030		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	
Other Material		N	2030		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	
Soil Texture		N	2030		N/A	Clay	Clay	Clay	Clay	Clay	Clay	Clay	
pH (2.5:1) at 20C		N	2010		4.0	8.2	8.3	8.4	8.5	8.6	8.3	8.2	
Magnesium (Water Soluble)		N	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	0.16	0.076	0.051	0.018	< 0.010	0.35	0.073	
Total Sulphur		U	2175	%	0.010	0.060	0.23	0.24	0.050	0.020	0.090	0.030	
Chloride (Water Soluble)		M	2220	g/l	0.010	< 0.010	0.032	< 0.010	< 0.010	< 0.010	< 0.010	0.014	
Nitrate (Water Soluble)		N	2220	g/l	0.010	< 0.010	0.014	0.032	0.018	< 0.010	< 0.010	< 0.010	
Sulphate (Acid Soluble)		U	2430	%	0.010	0.051	0.045	< 0.010	0.026	< 0.010	0.068	0.030	

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:						25-17689	25-17689	25-17689	25-17689	25-17689	25-17689
Quotation No.: Q23-32607		Chemtest Sample ID.:						1979256	1979257	1979258	1979259	1979260	1979261
		Client Reference:						BH311	TP312	TP313	TP316	TP317	TP319
		Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):						2.50	1.00	1.80	0.80	1.80	0.80
		Bottom Depth (m):						3.00			1.20		2.50
		Date Sampled:						22-May-2025	22-May-2025	22-May-2025	22-May-2025	22-May-2025	22-May-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Moisture		N	2030	%	0.020	25	9.8	11	11	8.8	11	21	
Soil Colour		N	2030		N/A	Brown	Brown	Brown	Black	Brown	Brown	Brown	
Other Material		N	2030		N/A	Stones	Stones	Stones	None	Stones	Stones	Stones	
Soil Texture		N	2030		N/A	Clay	Clay	Clay	Loam	Clay	Clay	Clay	
pH (2.5:1) at 20C		N	2010		4.0	8.6	8.5	9.0	8.6	8.6	9.0	9.2	
Magnesium (Water Soluble)		N	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	0.11	< 0.010	0.023	< 0.010	< 0.010	0.023	0.071	
Total Sulphur		U	2175	%	0.010	0.20	0.030	0.020	0.040	0.020	0.020	0.040	
Chloride (Water Soluble)		M	2220	g/l	0.010	0.019	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	
Nitrate (Water Soluble)		N	2220	g/l	0.010	< 0.010	< 0.010	0.016	< 0.010	< 0.010	< 0.010	0.028	
Sulphate (Acid Soluble)		U	2430	%	0.010	0.13	< 0.010	0.022	< 0.010	< 0.010	< 0.010	0.029	

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-17689	25-17689	25-17689	25-17689
Quotation No.: Q23-32607		Chemtest Sample ID.:				1979263	1979264	1979265	1979266
		Client Reference:				TP323	ST302	ST304	ST305
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.80	0.80	0.80	0.50
		Bottom Depth (m):				1.20	1.20		
		Date Sampled:				22-May-2025	22-May-2025	22-May-2025	22-May-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Moisture		N	2030	%	0.020	18	8.5	12	12
Soil Colour		N	2030		N/A	Brown	Brown	Brown	Brown
Other Material		N	2030		N/A	Stones	Stones	Stones	Stones
Soil Texture		N	2030		N/A	Clay	Clay	Clay	Clay
pH (2.5:1) at 20C		N	2010		4.0	7.2	7.5	7.7	7.7
Magnesium (Water Soluble)		N	2120	g/l	0.010	0.010	< 0.010	< 0.010	< 0.010
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	0.053	0.14	0.030	0.019
Total Sulphur		U	2175	%	0.010	0.070	0.040	0.030	0.020
Chloride (Water Soluble)		M	2220	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010
Nitrate (Water Soluble)		N	2220	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010
Sulphate (Acid Soluble)		U	2430	%	0.010	0.051	0.078	0.012	0.016

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2220	Water soluble Chloride in Soils	Chloride	Aqueous extraction and measuremnt by 'Aquakem 600' Discrete Analyser using ferric nitrate / mercuric thiocyanate.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Text example All items indicated in italic font represent customer-supplied information that may not be independently verified by the laboratory
This report shall not be reproduced except in full, and only with the prior approval of the laboratory.
Any comments or interpretations are outside the scope of UKAS accreditation.
The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.
Uncertainty of measurement for the determinands tested are available upon request .
None of the results in this report have been recovery corrected.
All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.
For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.
All Asbestos testing is performed at the indicated laboratory .
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - The required amount of sample for analysis was not received
- H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.
All water samples will be retained for 14 days from the date of receipt.
Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 25-17344-1

Initial Date of Issue: 10-Jun-2025

Re-Issue Details:

Client *Priority Geotechnical Ltd*

Client Address: *Unit 12
Owenacurra Business Park
Midleton
County Cork
Ireland*

Contact(s): *Colette Kelly*

Project *P25019 Cleeves*

Quotation No.: *Q23-32607*

Date Received: 23-May-2025

Order No.: 16776

Date Instructed: 23-May-2025

No. of Samples: 1

Turnaround (Wkdays): 5

Results Due: 30-May-2025

Date Approved: 10-Jun-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd	Chemtest Job No.:					25-17344
<i>Quotation No.: Q23-32607</i>	Chemtest Sample ID.:					1977961
	<i>Client Reference:</i>					Soil Heap
	<i>Sample Type:</i>					SOIL
	<i>Date Sampled:</i>					20-May-2025
Determinand	Accred.	SOP	Type	Units	LOD	
Ammonium	U	1220	10:1	mg/l	0.050	0.18
Ammonium	N	1220	10:1	mg/kg	0.10	2.0

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:		25-17344	
Quotation No.: Q23-32607		Chemtest Sample ID.:		1977961	
		<i>Client Reference:</i>		Soil Heap	
		<i>Sample Type:</i>		SOIL	
		<i>Date Sampled:</i>		20-May-2025	
		<i>Asbestos Lab:</i>		DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD
ACM Type		N	2192		N/A
Asbestos Identification		U	2192		N/A
Moisture		N	2030	%	0.020
Soil Colour		N	2030		N/A
Other Material		N	2030		N/A
Soil Texture		N	2030		N/A
pH at 20C		M	2010		4.0
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40
Sulphur (Elemental)		M	2180	mg/kg	1.0
Cyanide (Total)		M	2300	mg/kg	0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50
Sulphate (Total)		U	2430	%	0.010
Arsenic		M	2455	mg/kg	0.5
Barium		M	2455	mg/kg	0.5
Cadmium		M	2455	mg/kg	0.10
Chromium		M	2455	mg/kg	0.5
Molybdenum		M	2455	mg/kg	0.5
Antimony		N	2455	mg/kg	2.0
Copper		M	2455	mg/kg	0.50
Mercury		M	2455	mg/kg	0.05
Nickel		M	2455	mg/kg	0.50
Lead		M	2455	mg/kg	0.50
Selenium		M	2455	mg/kg	0.25
Zinc		M	2455	mg/kg	0.50
Chromium (Trivalent)		N	2490	mg/kg	1.0
Chromium (Hexavalent)		N	2490	mg/kg	0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-17344
Quotation No.: Q23-32607		Chemtest Sample ID.:				1977961
		<i>Client Reference:</i>				Soil Heap
		<i>Sample Type:</i>				SOIL
		<i>Date Sampled:</i>				20-May-2025
		Asbestos Lab:				DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	34
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	13
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	35
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	51
Total Organic Carbon		M	2625	%	0.20	4.8
Mineral Oil EPH		N	2670	mg/kg	10	15
Benzene		M	2760	µg/kg	1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	0.14
Phenanthrene		M	2800	mg/kg	0.10	1.7
Anthracene		M	2800	mg/kg	0.10	0.33
Fluoranthene		M	2800	mg/kg	0.10	2.4
Pyrene		M	2800	mg/kg	0.10	1.6
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.0
Chrysene		M	2800	mg/kg	0.10	1.2
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.4
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.43
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.0
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.75
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.26
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.71
Coronene		N	2800	mg/kg	0.10	< 0.10
PCB 28		U	2815	mg/kg	0.010	< 0.010
PCB 52		U	2815	mg/kg	0.010	< 0.010
PCB 101		U	2815	mg/kg	0.010	< 0.010
PCB 118		U	2815	mg/kg	0.010	< 0.010

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:		25-17344		
<i>Quotation No.: Q23-32607</i>		Chemtest Sample ID.:		1977961		
		<i>Client Reference:</i>		Soil Heap		
		<i>Sample Type:</i>		SOIL		
		<i>Date Sampled:</i>		20-May-2025		
		<i>Asbestos Lab:</i>		DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
PCB 153		U	2815	mg/kg	0.010	< 0.010
PCB 138		U	2815	mg/kg	0.010	< 0.010
PCB 180		U	2815	mg/kg	0.010	< 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-17344						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1977961						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Client Reference: Soil Heap								
Top Depth(m):								
Bottom Depth(m):								
Sampling Date: 20-May-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	4.8	3	5	6
Loss On Ignition	2610		M	%	4.8	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.05	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	190	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	13	100	--	--
pH at 20C	2010		M		8.2	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.012	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0033	0.033	0.5	2	25
Barium	1455		U	0.012	0.12	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0005	0.0052	0.5	10	70
Copper	1455		U	0.0068	0.068	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0013	0.013	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0042	0.042	0.5	10	50
Antimony	1455		U	0.0009	0.0086	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.022	0.22	4	50	200
Chloride	1220		U	1.2	12	800	15000	25000
Fluoride	1220		U	0.16	1.6	10	150	500
Sulphate	1220		U	1.6	16	1000	20000	50000
Total Dissolved Solids	1020		N	86	860	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	7.8	78	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	3.5
WAC Sample Weight	1247

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Chemtest Sample ID	Clients Sample Ref:	Clients Sample ID:	Clients Reference:	Sampled Date:	Deviation Code(s):	Containers Received:
1977961			Soil Heap	20-May-2025	E	Amber Glass 250ml
1977961			Soil Heap	20-May-2025	E	Amber Glass 60ml
1977961			Soil Heap	20-May-2025	E	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW PL LE DW GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching C2,C8,C10,WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Text example All items indicated in italic font represent customer-supplied information that may not be independently verified by the laboratory
This report shall not be reproduced except in full, and only with the prior approval of the laboratory.
Any comments or interpretations are outside the scope of UKAS accreditation.
The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.
Uncertainty of measurement for the determinands tested are available upon request .
None of the results in this report have been recovery corrected.
All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.
For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.
All Asbestos testing is performed at the indicated laboratory .
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - The required amount of sample for analysis was not received
- H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.
All water samples will be retained for 14 days from the date of receipt.
Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 25-11418-1

Initial Date of Issue: 17-Apr-2025

Re-Issue Details:

Client Priority Geotechnical Ltd

Client Address: Unit 12
Owenacurra Business Park
Midleton
County Cork
Ireland

Contact(s): Colette Kelly

Project P25019 Cleeves

Quotation No.: Q23-32607

Date Received: 03-Apr-2025

Order No.: 16776

Date Instructed: 03-Apr-2025

No. of Samples: 2

Turnaround (Wkdays): 5

Results Due: 09-Apr-2025

Date Approved: 17-Apr-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd	Chemtest Job No.:					25-11418	25-11418
Quotation No.: Q23-32607	Chemtest Sample ID.:					1956363	1956364
	Sample Location:					TP318	BH314
	Sample Type:					SOIL	SOIL
	Top Depth (m):					0.50	2.00
	Date Sampled:					26-Mar-2025	18-Mar-2025
Determinand	Accred.	SOP	Type	Units	LOD		
Ammonium	U	1220	10:1	mg/l	0.050	0.21	0.18
Ammonium	N	1220	10:1	mg/kg	0.10	2.2	2.3

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-11418	25-11418
Quotation No.: Q23-32607		Chemtest Sample ID.:				1956363	1956364
		Sample Location:				TP318	BH314
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.50	2.00
		Date Sampled:				26-Mar-2025	18-Mar-2025
		Asbestos Lab:				DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
ACM Type		N	2192		N/A	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	19	9.5
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Clay
pH at 20C		M	2010		4.0	8.1	8.7
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.54	< 0.40
Sulphur (Elemental)		M	2180	mg/kg	1.0	1.6	1.7
Cyanide (Total)		M	2300	mg/kg	0.50	1.1	[B] < 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	14	23
Sulphate (Total)		U	2430	%	0.010	0.17	0.059
Arsenic		M	2455	mg/kg	0.5	26	2.7
Barium		M	2455	mg/kg	0.5	250	29
Cadmium		M	2455	mg/kg	0.10	2.0	0.16
Chromium		M	2455	mg/kg	0.5	27	4.0
Molybdenum		M	2455	mg/kg	0.5	2.7	0.6
Antimony		N	2455	mg/kg	2.0	5.4	< 2.0
Copper		M	2455	mg/kg	0.50	820	20
Mercury		M	2455	mg/kg	0.05	1.2	0.06
Nickel		M	2455	mg/kg	0.50	48	8.9
Lead		M	2455	mg/kg	0.50	1500	31
Selenium		M	2455	mg/kg	0.25	1.1	< 0.25
Zinc		M	2455	mg/kg	0.50	2500	16
Chromium (Trivalent)		N	2490	mg/kg	1.0	27	4.0
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	[B] < 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	[B] < 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	[B] < 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	[B] < 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	[B] < 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	2.3	[B] < 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	[B] < 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	[B] < 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	5.3	[B] 36
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	[B] 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	9.0	[B] 36
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	[B] < 0.05

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-11418	25-11418
Quotation No.: Q23-32607		Chemtest Sample ID.:				1956363	1956364
		Sample Location:				TP318	BH314
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.50	2.00
		Date Sampled:				26-Mar-2025	18-Mar-2025
		Asbestos Lab:				DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	[B] < 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	[B] < 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	[B] < 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	[B] < 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	[B] < 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	8.0	[B] 4.9
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	43	[B] < 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	29	[B] < 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	51	[B] 5.7
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	[B] < 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	60	[B] 42
Total Organic Carbon		M	2625	%	0.20	7.4	4.4
Mineral Oil EPH		N	2670	mg/kg	10	< 10	53
Benzene		M	2760	µg/kg	1.0	< 1.0	[B] < 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	[B] < 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	[B] < 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	[B] < 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	[B] < 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	[B] < 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.31	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.50	< 0.10
Pyrene		M	2800	mg/kg	0.10	0.46	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10
PCB 28		U	2815	mg/kg	0.010	< 0.010	< 0.010
PCB 52		U	2815	mg/kg	0.010	< 0.010	< 0.010
PCB 101		U	2815	mg/kg	0.010	< 0.010	< 0.010

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-11418	25-11418
Quotation No.: Q23-32607		Chemtest Sample ID.:				1956363	1956364
		Sample Location:				TP318	BH314
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.50	2.00
		Date Sampled:				26-Mar-2025	18-Mar-2025
		Asbestos Lab:				DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
PCB 118		U	2815	mg/kg	0.010	< 0.010	< 0.010
PCB 153		U	2815	mg/kg	0.010	< 0.010	< 0.010
PCB 138		U	2815	mg/kg	0.010	< 0.010	< 0.010
PCB 180		U	2815	mg/kg	0.010	< 0.010	< 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05	< 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-11418						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1956363						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: TP318								
Top Depth(m): 0.50								
Bottom Depth(m):								
Sampling Date: 26-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	7.4	3	5	6
Loss On Ignition	2610		M	%	6.0	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	1.3	100	--	--
pH at 20C	2010		M		8.1	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.010	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0019	0.019	0.5	2	25
Barium	1455		U	0.016	0.16	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0066	0.066	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0047	0.047	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0020	0.020	0.5	10	50
Antimony	1455		U	0.0007	0.0066	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.013	0.13	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.22	2.2	10	150	500
Sulphate	1220		U	9.5	95	1000	20000	50000
Total Dissolved Solids	1020		N	57	570	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.7	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	7.1
WAC Sample Weight	2685

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-11418						Landfill Waste Acceptance Criteria Limits		
Chemtest Sample ID: 1956364						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample Ref:								
Sample ID:								
Sample Location: BH314								
Top Depth(m): 2.00								
Bottom Depth(m):								
Sampling Date: 18-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	4.4	3	5	6
Loss On Ignition	2610		M	%	1.9	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.05	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.7	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.052	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0022	0.022	0.5	2	25
Barium	1455		U	0.007	0.066	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0025	0.025	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0059	0.059	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0006	0.0059	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.003	0.027	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.19	1.9	10	150	500
Sulphate	1220		U	2.9	29	1000	20000	50000
Total Dissolved Solids	1020		N	57	570	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.1	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	8.0
WAC Sample Weight	2731

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1956364			BH314	18-Mar-2025	B	Amber Glass 250ml
1956364			BH314	18-Mar-2025	B	Amber Glass 60ml
1956364			BH314	18-Mar-2025	B	Plastic Tub 1000g

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW PL LE DW GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N–dimethyl-p-phenylenediamine.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL

DURHAM Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 25-11273-1

Initial Date of Issue: 25-Apr-2025

Re-Issue Details:

Client Priority Geotechnical Ltd

Client Address: Unit 12
Owenacurra Business Park
Midleton
County Cork
Ireland

Contact(s): Colette Kelly

Project P25019 Cleeves

Quotation No.: Q23-32607

Date Received: 02-Apr-2025

Order No.: 16776

Date Instructed: 02-Apr-2025

No. of Samples: 2

Turnaround (Wkdays): 5

Results Due: 08-Apr-2025

Date Approved: 25-Apr-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd	Chemtest Job No.:					25-11273	25-11273
Quotation No.: Q23-32607	Chemtest Sample ID.:					1955879	1955880
	Sample Location:					BH309	BH309
	Sample Type:					SOIL	SOIL
	Top Depth (m):					0.50	2.50
	Date Sampled:					20-Mar-2025	20-Mar-2025
Determinand	Accred.	SOP	Type	Units	LOD		
Ammonium	U	1220	10:1	mg/l	0.050	< 0.050	< 0.050
Ammonium	N	1220	10:1	mg/kg	0.10	0.50	0.50

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-11273	25-11273
Quotation No.: Q23-32607		Chemtest Sample ID.:				1955879	1955880
		Sample Location:				BH309	BH309
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.50	2.50
		Date Sampled:				20-Mar-2025	20-Mar-2025
		Asbestos Lab:				DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
ACM Type		N	2192		N/A	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	6.0	24
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots and	Stones, Roots, Wood and
Soil Texture		N	2040		N/A	Sand	Clay
pH at 20C		M	2010		4.0	7.8	8.0
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	2.9
Sulphur (Elemental)		N	2180	mg/kg	1.0	2.0	6.7
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	5.2	6.6
Sulphate (Total)		U	2430	%	0.010	0.58	0.28
Arsenic		M	2455	mg/kg	0.5	4.9	86
Barium		M	2455	mg/kg	0.5	28	260
Cadmium		M	2455	mg/kg	0.10	0.15	0.65
Chromium		M	2455	mg/kg	0.5	14	27
Molybdenum		M	2455	mg/kg	0.5	1.3	4.5
Antimony		N	2455	mg/kg	2.0	< 2.0	39
Copper		M	2455	mg/kg	0.50	10	1900
Mercury		M	2455	mg/kg	0.05	< 0.05	5.6
Nickel		M	2455	mg/kg	0.50	23	74
Lead		M	2455	mg/kg	0.50	22	4900
Selenium		M	2455	mg/kg	0.25	< 0.25	0.35
Zinc		M	2455	mg/kg	0.50	33	610
Chromium (Trivalent)		N	2490	mg/kg	1.0	14	27
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	8.5
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-11273	25-11273
Quotation No.: Q23-32607		Chemtest Sample ID.:				1955879	1955880
		Sample Location:				BH309	BH309
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.50	2.50
		Date Sampled:				20-Mar-2025	20-Mar-2025
		Asbestos Lab:				DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0	11
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	5.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	7.7	170
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	41	300
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	180	13
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	49	480
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	49	490
Total Organic Carbon		M	2625	%	0.20	6.0	4.3
Mineral Oil EPH		N	2670	mg/kg	10	< 10	11
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	0.27
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	0.30
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	0.15
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	1.9
Anthracene		M	2800	mg/kg	0.10	< 0.10	0.49
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	4.1
Pyrene		M	2800	mg/kg	0.10	< 0.10	3.5
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	2.6
Chrysene		M	2800	mg/kg	0.10	< 0.10	2.6
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	3.4
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	1.3
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	2.5
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	1.6
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.40
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	1.4
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10
PCB 28		U	2815	mg/kg	0.010	< 0.010	< 0.010

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-11273	25-11273
Quotation No.: Q23-32607		Chemtest Sample ID.:				1955879	1955880
		Sample Location:				BH309	BH309
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.50	2.50
		Date Sampled:				20-Mar-2025	20-Mar-2025
		Asbestos Lab:				DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
PCB 52		U	2815	mg/kg	0.010	< 0.010	< 0.010
PCB 101		U	2815	mg/kg	0.010	< 0.010	< 0.010
PCB 118		U	2815	mg/kg	0.010	< 0.010	< 0.010
PCB 153		U	2815	mg/kg	0.010	< 0.010	< 0.010
PCB 138		U	2815	mg/kg	0.010	< 0.010	< 0.010
PCB 180		U	2815	mg/kg	0.010	< 0.010	< 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05	< 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-11273						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1955879						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: BH309								
Top Depth(m): 0.50								
Bottom Depth(m):								
Sampling Date: 20-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	6.0	3	5	6
Loss On Ignition	2610		M	%	1.9	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.05	1	--	--
TPH Total WAC	2670	EH CU 1D Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.8	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.033	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0008	0.0080	0.5	2	25
Barium	1455		U	0.006	0.062	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0023	0.023	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0035	0.035	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	0.0006	0.0056	0.1	0.5	7
Zinc	1455		U	0.007	0.075	4	50	200
Chloride	1220		U	1.1	11	800	15000	25000
Fluoride	1220		U	0.14	1.4	10	150	500
Sulphate	1220		U	7.8	78	1000	20000	50000
Total Dissolved Solids	1020		N	58	580	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	15
WAC Sample Weight	2297

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-11273						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1955880						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: BH309								
Top Depth(m): 2.50								
Bottom Depth(m):								
Sampling Date: 20-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	4.3	3	5	6
Loss On Ignition	2610		M	%	9.0	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	380	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	27	100	--	--
pH at 20C	2010		M		8.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.050	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0003	0.0029	0.5	2	25
Barium	1455		U	0.037	0.37	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0092	0.092	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0005	0.0048	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0007	0.0069	0.5	10	50
Antimony	1455		U	0.0008	0.0082	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.004	0.043	4	50	200
Chloride	1220		U	2.6	26	800	15000	25000
Fluoride	1220		U	0.15	1.5	10	150	500
Sulphate	1220		U	50	500	1000	20000	50000
Total Dissolved Solids	1020		N	170	1700	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.8	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	21
WAC Sample Weight	[E] 1640

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1955880			BH309	20-Mar-2025	E	Amber Glass 250ml
1955880			BH309	20-Mar-2025	E	Amber Glass 60ml
1955880			BH309	20-Mar-2025	E	Plastic Tub 1000g

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW PL LE DW GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N–dimethyl-p-phenylenediamine.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 25-11221-1

Initial Date of Issue: 28-Apr-2025

Re-Issue Details:

Client Priority Geotechnical Ltd

Client Address: Unit 12
Owenacurra Business Park
Midleton
County Cork
Ireland

Contact(s): Colette Kelly

Project P25019 Cleeves

Quotation No.: Q23-32607

Date Received: 02-Apr-2025

Order No.: 16776

Date Instructed: 03-Apr-2025

No. of Samples: 10

Turnaround (Wkdays): 12

Results Due: 22-Apr-2025

Date Approved: 25-Apr-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd	Chemtest Job No.:					25-11221	25-11221	25-11221	25-11221	25-11221	25-11221	25-11221	25-11221
Quotation No.: Q23-32607	Chemtest Sample ID.:					1955690	1955691	1955692	1955695	1955698	1955700	1955702	1955703
	Sample Location:					BH301	BH301	TP323	TP317	TP316	TP320	TP321	TP321
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					0.50	1.50	0.45	2.00	0.50	1.00	0.75	1.50
	Date Sampled:					24-Mar-2025	24-Mar-2025	26-Mar-2025	26-Mar-2025	26-Mar-2025	26-Mar-2025	26-Mar-2025	26-Mar-2025
Determinand	Accred.	SOP	Type	Units	LOD								
Ammonium	U	1220	10:1	mg/l	0.050	0.074	0.39	0.35	0.3	0.24	0.23	0.18	0.21
Ammonium	N	1220	10:1	mg/kg	0.10	0.76	4.2	3.7	3.3	2.5	2.5	1.9	2.1

Results - Leachate

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd	Chemtest Job No.:		25-11221			
Quotation No.: Q23-32607	Chemtest Sample ID.:		1955705			
	Sample Location:		BH303			
	Sample Type:		SOIL			
	Top Depth (m):		0.50			
	Date Sampled:		25-Mar-2025			
Determinand	Accred.	SOP	Type	Units	LOD	
Ammonium	U	1220	10:1	mg/l	0.050	0.25
Ammonium	N	1220	10:1	mg/kg	0.10	2.5

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:		25-11221	25-11221	25-11221	25-11221	25-11221	25-11221	25-11221	25-11221	25-11221	25-11221
Quotation No.: Q23-32607		Chemtest Sample ID.:		1955690	1955691	1955692	1955695	1955697	1955698	1955700	1955702	1955702	1955702
		Sample Location:		BH301	BH301	TP323	TP317	TP317 PFAS	TP316	TP320	TP321	TP321	TP321
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.50	1.50	0.45	2.00	1.50	0.50	1.00	0.75	0.75	0.75
		Date Sampled:		24-Mar-2025	24-Mar-2025	26-Mar-2025	26-Mar-2025	26-Mar-2025	26-Mar-2025	26-Mar-2025	26-Mar-2025	26-Mar-2025	26-Mar-2025
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
ACM Type		N	2192		N/A	-	-	-	-		-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	11	7.6	6.8	11		9.2	12	14
Soil Colour		N	2040		N/A	Brown	Brown	Black	Brown		Black	Brown	
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones		Stones	Stones	
Soil Texture		N	2040		N/A	Clay	Sand	Sand	Clay		Sand	Clay	
PFAS Top Assay Soil		SN		µg/kg	1.00					See Attached			
pH at 20C		M	2010		4.0	8	8.5	8.1	8.5		8.2	8.7	8.3
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.48	< 0.40	0.51	< 0.40		< 0.40	< 0.40	0.79
Sulphur (Elemental)		M	2180	mg/kg	1.0	1.5	20	1.5	< 1.0		1.7	< 1.0	< 1.0
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		2	< 0.50	0.9
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	4.3	34	8.7	4.7		3.1	22	5
Sulphate (Total)		U	2430	%	0.010	0.054	0.045	0.082	0.23		0.051	0.22	0.043
Arsenic		M	2455	mg/kg	0.5	11	22	3.3	18		5.9	22	4.5
Barium		M	2455	mg/kg	0.5	98	140	20	270		63	86	23
Cadmium		M	2455	mg/kg	0.10	0.44	0.43	0.31	0.6		0.53	0.62	0.33
Chromium		M	2455	mg/kg	0.5	20	56	6.7	27		14	15	8.7
Molybdenum		M	2455	mg/kg	0.5	1.1	2.1	< 0.5	3.2		0.6	3.2	< 0.5
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	3.9	< 2.0
Copper		M	2455	mg/kg	0.50	24	33	5	210		10	880	16
Mercury		M	2455	mg/kg	0.05	0.25	0.1	0.05	0.6		0.08	0.32	< 0.05
Nickel		M	2455	mg/kg	0.50	24	62	8.1	63		20	34	12
Lead		M	2455	mg/kg	0.50	100	56	13	550		20	970	31
Selenium		M	2455	mg/kg	0.25	0.49	1.2	< 0.25	0.93		0.37	1.1	< 0.25
Zinc		M	2455	mg/kg	0.50	67	100	17	190		28	290	19
Chromium (Trivalent)		N	2490	mg/kg	1.0	20	56	6.7	27		14	15	8.7
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	0.2	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25		< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	3.7	2.4	2		2.3	3.7	4.2
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	3.6	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	7.7	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	18	5.4	4.7		6	6.5	< 3.0

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:	25-11221	25-11221	25-11221	25-11221	25-11221	25-11221	25-11221	25-11221	25-11221
Quotation No.: Q23-32607		Chemtest Sample ID.:	1955690	1955691	1955692	1955695	1955697	1955698	1955700	1955702	
		Sample Location:	BH301	BH301	TP323	TP317	TP317 PFAS	TP316	TP320	TP321	
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):	0.50	1.50	0.45	2.00	1.50	0.50	1.00	0.75	
		Date Sampled:	24-Mar-2025	24-Mar-2025	26-Mar-2025	26-Mar-2025	26-Mar-2025	26-Mar-2025	26-Mar-2025	26-Mar-2025	
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM		DURHAM	DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	88
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0	33	8.7	6.7	9.8	< 5.0
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	1.9	1.1	1.3	1.9	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1200
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	3.9	3.6	4.5	2.3	< 2.0	28
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	4.9	8.9	< 2.0	3.3	85
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0	3.4	2.7	2.7	4.1	4.6
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	5.1	11	15	< 5.0	6.4	120
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	< 10	43	23	11	16	130
Total Organic Carbon		M	2625	%	0.20	4.5	3.4	7.1	3.4	10	6.3
Mineral Oil EPH		N	2670	mg/kg	10	< 10	33	< 10	< 10	< 10	10
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	4	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	4.1	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	0.13	< 0.10	0.41	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.17	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	0.15	< 0.10	0.69	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	0.16	< 0.10	0.77	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	1.6	0.32	8.6	< 0.10	0.79	< 0.10
Anthracene		M	2800	mg/kg	0.10	0.46	< 0.10	1.8	< 0.10	0.59	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	2.2	0.42	12	< 0.10	2.6	0.4
Pyrene		M	2800	mg/kg	0.10	1.7	0.32	8.3	< 0.10	2.7	0.25
Benzo[a]anthracene		M	2800	mg/kg	0.10	1	< 0.10	5.4	< 0.10	3.2	< 0.10
Chrysene		M	2800	mg/kg	0.10	0.96	< 0.10	4.9	< 0.10	2.8	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.2	< 0.10	5.9	< 0.10	3.9	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.4	< 0.10	2.4	< 0.10	3.2	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.89	< 0.10	4.5	< 0.10	3.3	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.51	< 0.10	2.7	< 0.10	3.9	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.6	< 0.10	2.8	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.52	< 0.10	2.3	< 0.10	3.5	< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:		25-11221	25-11221	25-11221	25-11221	25-11221	25-11221	25-11221	25-11221	25-11221	25-11221
Quotation No.: Q23-32607		Chemtest Sample ID.:		1955690	1955691	1955692	1955695	1955697	1955698	1955700	1955702	1955702	1955702
		Sample Location:		BH301	BH301	TP323	TP317	TP317 PFAS	TP316	TP320	TP321	TP321	TP321
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.50	1.50	0.45	2.00	1.50	0.50	1.00	0.75	0.75	0.75
		Date Sampled:		24-Mar-2025	24-Mar-2025	26-Mar-2025	26-Mar-2025	26-Mar-2025	26-Mar-2025	26-Mar-2025	26-Mar-2025	26-Mar-2025	26-Mar-2025
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
PCB 28		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010	< 0.010	< 0.010
PCB 52		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010	< 0.010	< 0.010
PCB 101		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010	< 0.010	< 0.010
PCB 118		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010	< 0.010	< 0.010
PCB 153		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010	< 0.010	< 0.010
PCB 138		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010	< 0.010	< 0.010
PCB 180		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010	< 0.010	< 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
PFAS Suite Soils		SN		µg/kg	0.0					See Attached			

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-11221	25-11221
Quotation No.: Q23-32607		Chemtest Sample ID.:				1955703	1955705
		Sample Location:				TP321	BH303
		Sample Type:				SOIL	SOIL
		Top Depth (m):				1.50	0.50
		Date Sampled:				26-Mar-2025	25-Mar-2025
		Asbestos Lab:				DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
ACM Type		N	2192		N/A	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	10	9.9
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Sand
PFAS Top Assay Soil		SN		µg/kg	1.00		
pH at 20C		M	2010		4.0	8.1	8.6
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.53	< 0.40
Sulphur (Elemental)		M	2180	mg/kg	1.0	< 1.0	13
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	5	22
Sulphate (Total)		U	2430	%	0.010	0.085	0.021
Arsenic		M	2455	mg/kg	0.5	47	6.3
Barium		M	2455	mg/kg	0.5	110	340
Cadmium		M	2455	mg/kg	0.10	0.27	0.28
Chromium		M	2455	mg/kg	0.5	41	20
Molybdenum		M	2455	mg/kg	0.5	4.9	1
Antimony		N	2455	mg/kg	2.0	9	< 2.0
Copper		M	2455	mg/kg	0.50	260	21
Mercury		M	2455	mg/kg	0.05	0.41	0.17
Nickel		M	2455	mg/kg	0.50	98	39
Lead		M	2455	mg/kg	0.50	1200	47
Selenium		M	2455	mg/kg	0.25	0.56	0.73
Zinc		M	2455	mg/kg	0.50	110	54
Chromium (Trivalent)		N	2490	mg/kg	1.0	41	20
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	3.4	2.6
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	4.1	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	23	3.9

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-11221	25-11221
Quotation No.: Q23-32607		Chemtest Sample ID.:				1955703	1955705
		Sample Location:				TP321	BH303
		Sample Type:				SOIL	SOIL
		Top Depth (m):				1.50	0.50
		Date Sampled:				26-Mar-2025	25-Mar-2025
		Asbestos Lab:				DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	30	7.9
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	2.7	1.1
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	44	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	600	< 2.0
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	1300	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	120	3.8
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	2000	5
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	2000	13
Total Organic Carbon		M	2625	%	0.20	5.1	2.3
Mineral Oil EPH		N	2670	mg/kg	10	30	< 10
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	1.2	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	4.5	< 0.10
Fluorene		M	2800	mg/kg	0.10	4.9	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	51	< 0.10
Anthracene		M	2800	mg/kg	0.10	13	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	65	< 0.10
Pyrene		M	2800	mg/kg	0.10	47	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	31	< 0.10
Chrysene		M	2800	mg/kg	0.10	27	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	35	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	13	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	27	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	17	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	4	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	14	< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-11221	25-11221
Quotation No.: Q23-32607		Chemtest Sample ID.:				1955703	1955705
		Sample Location:				TP321	BH303
		Sample Type:				SOIL	SOIL
		Top Depth (m):				1.50	0.50
		Date Sampled:				26-Mar-2025	25-Mar-2025
		Asbestos Lab:				DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
PCB 28		U	2815	mg/kg	0.010	< 0.010	< 0.010
PCB 52		U	2815	mg/kg	0.010	< 0.010	< 0.010
PCB 101		U	2815	mg/kg	0.010	< 0.010	< 0.010
PCB 118		U	2815	mg/kg	0.010	< 0.010	< 0.010
PCB 153		U	2815	mg/kg	0.010	< 0.010	< 0.010
PCB 138		U	2815	mg/kg	0.010	< 0.010	< 0.010
PCB 180		U	2815	mg/kg	0.010	< 0.010	< 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05	< 0.05
Total Phenols		M	2920	mg/kg	0.10	3.3	< 0.10
PFAS Suite Soils		SN		µg/kg	0.0		

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-11221						Landfill Waste Acceptance Criteria						
Chemtest Sample ID: 1955690						Inert Waste Landfill	Limits					
Sample Ref:							Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill				
Sample ID:												
Sample Location: BH301												
Top Depth(m): 0.50												
Bottom Depth(m):												
Sampling Date: 24-Mar-2025						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill				
Determinand	SOP	HWOL Code	Accred.	Units								
Total Organic Carbon	2625		M	%					4.5	3	5	6
Loss On Ignition	2610		M	%					0.53	--	--	10
Total BTEX	2760		M	mg/kg					< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg					< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg					82	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg					12	100	--	--
pH at 20C	2010		M						8.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg					0.030	--	To evaluate	To evaluate
Eluate Analysis									10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg	
Arsenic	1455		U	0.0008	0.0080	0.5	2	25				
Barium	1455		U	0.007	0.067	20	100	300				
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5				
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70				
Copper	1455		U	0.0025	0.025	2	50	100				
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2				
Molybdenum	1455		U	0.0021	0.021	0.5	10	30				
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40				
Lead	1455		U	0.0014	0.014	0.5	10	50				
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5				
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7				
Zinc	1455		U	0.004	0.040	4	50	200				
Chloride	1220		U	< 1.0	< 10	800	15000	25000				
Fluoride	1220		U	0.30	3.0	10	150	500				
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000				
Total Dissolved Solids	1020		N	65	640	4000	60000	100000				
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-				
Dissolved Organic Carbon	1610		U	3.4	< 50	500	800	1000				

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	18
WAC Sample Weight	2584

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-11221						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1955691						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: BH301								
Top Depth(m): 1.50								
Bottom Depth(m):								
Sampling Date: 24-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	3.4	3	5	6
Loss On Ignition	2610		M	%	0.78	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	1.1	100	--	--
pH at 20C	2010		M		8.5	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.058	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0008	0.0076	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0017	0.017	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0021	0.021	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.007	0.065	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.13	1.3	10	150	500
Sulphate	1220		U	1.6	16	1000	20000	50000
Total Dissolved Solids	1020		N	49	490	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.6	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	9.3
WAC Sample Weight	3508

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-11221						Landfill Waste Acceptance Criteria						
Chemtest Sample ID: 1955692						Inert Waste Landfill	Limits					
Sample Ref:							Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill				
Sample ID:												
Sample Location: TP323												
Top Depth(m): 0.45												
Bottom Depth(m):												
Sampling Date: 26-Mar-2025						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill				
Determinand	SOP	HWOL Code	Accred.	Units								
Total Organic Carbon	2625		M	%					7.1	3	5	6
Loss On Ignition	2610		M	%					10	--	--	10
Total BTEX	2760		M	mg/kg					< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg					< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg					< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg					61	100	--	--
pH at 20C	2010		M						8.1	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg					0.040	--	To evaluate	To evaluate
Eluate Analysis									10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg	
Arsenic	1455		U	0.0019					0.019	0.5	2	25
Barium	1455		U	0.008	0.081	20	100	300				
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5				
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70				
Copper	1455		U	0.0034	0.034	2	50	100				
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2				
Molybdenum	1455		U	0.0027	0.027	0.5	10	30				
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40				
Lead	1455		U	0.0008	0.0077	0.5	10	50				
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5				
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7				
Zinc	1455		U	0.003	0.033	4	50	200				
Chloride	1220		U	< 1.0	< 10	800	15000	25000				
Fluoride	1220		U	0.15	1.5	10	150	500				
Sulphate	1220		U	1.8	18	1000	20000	50000				
Total Dissolved Solids	1020		N	48	480	4000	60000	100000				
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-				
Dissolved Organic Carbon	1610		U	2.9	< 50	500	800	1000				

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	17
WAC Sample Weight	2797

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-11221						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1955695						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: TP317								
Top Depth(m): 2.00								
Bottom Depth(m):								
Sampling Date: 26-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	3.4	3	5	6
Loss On Ignition	2610		M	%	0.40	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.5	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.040	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0040	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0014	0.014	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0028	0.028	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.011	0.11	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.21	2.1	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	39	390	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	10
WAC Sample Weight	3458

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-11221						Landfill Waste Acceptance Criteria						
Chemtest Sample ID: 1955698						Inert Waste Landfill	Limits					
Sample Ref:							Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill				
Sample ID:												
Sample Location: TP316												
Top Depth(m): 0.50												
Bottom Depth(m):												
Sampling Date: 26-Mar-2025						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill				
Determinand	SOP	HWOL Code	Accred.	Units								
Total Organic Carbon	2625		M	%					10	3	5	6
Loss On Ignition	2610		M	%					4.5	--	--	10
Total BTEX	2760		M	mg/kg					< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg					< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg					< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg					33	100	--	--
pH at 20C	2010		M						8.2	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg					0.016	--	To evaluate	To evaluate
Eluate Analysis									10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg	
Arsenic	1455		U	0.0047	0.047	0.5	2	25				
Barium	1455		U	0.006	0.058	20	100	300				
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5				
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70				
Copper	1455		U	0.011	0.11	2	50	100				
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2				
Molybdenum	1455		U	0.010	0.10	0.5	10	30				
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40				
Lead	1455		U	0.0041	0.041	0.5	10	50				
Antimony	1455		U	0.0006	0.0062	0.06	0.7	5				
Selenium	1455		U	0.0007	0.0066	0.1	0.5	7				
Zinc	1455		U	0.006	0.057	4	50	200				
Chloride	1220		U	1.4	14	800	15000	25000				
Fluoride	1220		U	0.30	3.0	10	150	500				
Sulphate	1220		U	6.0	60	1000	20000	50000				
Total Dissolved Solids	1020		N	65	640	4000	60000	100000				
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-				
Dissolved Organic Carbon	1610		U	3.0	< 50	500	800	1000				

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	12
WAC Sample Weight	2782

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-11221						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1955700						Inert Waste Landfill	Limits	
Sample Ref:							Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: TP320								
Top Depth(m): 1.00								
Bottom Depth(m):								
Sampling Date: 26-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	6.3	3	5	6
Loss On Ignition	2610		M	%	0.42	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.7	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.019	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0019	0.019	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0034	0.034	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0028	0.028	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.003	0.031	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.11	1.1	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	33	330	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.7	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	6.6
WAC Sample Weight	3582

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-11221						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1955702						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: TP321								
Top Depth(m): 0.75								
Bottom Depth(m):								
Sampling Date: 26-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	16	3	5	6
Loss On Ignition	2610		M	%	3.9	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	52000	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	12000	100	--	--
pH at 20C	2010		M		8.3	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.014	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0014	0.014	0.5	2	25
Barium	1455		U	0.010	0.099	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0051	0.051	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0094	0.094	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0011	0.011	0.5	10	50
Antimony	1455		U	0.0007	0.0072	0.06	0.7	5
Selenium	1455		U	0.0005	0.0055	0.1	0.5	7
Zinc	1455		U	0.003	0.028	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.16	1.6	10	150	500
Sulphate	1220		U	12	120	1000	20000	50000
Total Dissolved Solids	1020		N	69	680	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.4	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	23
WAC Sample Weight	2025

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-11221						Landfill Waste Acceptance Criteria						
Chemtest Sample ID: 1955703						Inert Waste Landfill	Limits					
Sample Ref:							Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill				
Sample ID:												
Sample Location: TP321												
Top Depth(m): 1.50												
Bottom Depth(m):												
Sampling Date: 26-Mar-2025						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill				
Determinand	SOP	HWOL Code	Accred.	Units								
Total Organic Carbon	2625		M	%					5.1	3	5	6
Loss On Ignition	2610		M	%					6.0	--	--	10
Total BTEX	2760		M	mg/kg					< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg					< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg					9200	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg					350	100	--	--
pH at 20C	2010		M						8.1	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg					0.0090	--	To evaluate	To evaluate
Eluate Analysis									10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg	
Arsenic	1455		U	0.0004	0.0043	0.5	2	25				
Barium	1455		U	0.006	0.062	20	100	300				
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5				
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70				
Copper	1455		U	0.0024	0.024	2	50	100				
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2				
Molybdenum	1455		U	0.0015	0.016	0.5	10	30				
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40				
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50				
Antimony	1455		U	0.0006	0.0058	0.06	0.7	5				
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7				
Zinc	1455		U	0.009	0.095	4	50	200				
Chloride	1220		U	< 1.0	< 10	800	15000	25000				
Fluoride	1220		U	0.18	1.8	10	150	500				
Sulphate	1220		U	9.0	90	1000	20000	50000				
Total Dissolved Solids	1020		N	89	890	4000	60000	100000				
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-				
Dissolved Organic Carbon	1610		U	2.6	< 50	500	800	1000				

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	17
WAC Sample Weight	2941

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-11221						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1955705						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: BH303								
Top Depth(m): 0.50								
Bottom Depth(m):								
Sampling Date: 25-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	2.3	3	5	6
Loss On Ignition	2610		M	%	1.5	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	820	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.054	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0015	0.015	0.5	2	25
Barium	1455		U	0.006	0.061	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0021	0.021	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0020	0.020	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0005	0.0055	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	0.0006	0.0058	0.1	0.5	7
Zinc	1455		U	0.007	0.067	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.12	1.2	10	150	500
Sulphate	1220		U	5.2	52	1000	20000	50000
Total Dissolved Solids	1020		N	51	510	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.0	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	10
WAC Sample Weight	2056

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW PL LE DW GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7 Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 25-11019-1

Initial Date of Issue: 30-Apr-2025

Re-Issue Details:

Client Priority Geotechnical Ltd

Client Address: Unit 12
Owenacurra Business Park
Midleton
County Cork
Ireland

Contact(s): Colette Kelly

Project P25019 Cleeves

Quotation No.: Q23-32607

Date Received: 31-Mar-2025

Order No.: 16776

Date Instructed: 08-Apr-2025

No. of Samples: 8

Turnaround (Wkdays): 5

Results Due: 14-Apr-2025

Date Approved: 30-Apr-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd	Chemtest Job No.:						25-11019	25-11019	25-11019	25-11019	25-11019	25-11019
Quotation No.: Q23-32607	Chemtest Sample ID.:						1955113	1955115	1955116	1955119	1955120	1955121
	Sample Location:						TP302	TP303	TP315	TP319	TP322	TP322
	Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):						0.5	2.0	1.0	1.8	0.5	1.5
	Date Sampled:						25-Mar-2025	25-Mar-2025	25-Mar-2025	25-Mar-2025	25-Mar-2025	25-Mar-2025
Determinand	Accred.	SOP	Type	Units	LOD							
Ammonium	U	1220	10:1	mg/l	0.050	< 0.050	0.061	0.072	0.24	< 0.050	< 0.050	
Ammonium	N	1220	10:1	mg/kg	0.10	0.36	0.64	1.2	2.7	1	0.81	

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:		25-11019	25-11019	25-11019	25-11019	25-11019	25-11019	25-11019	25-11019	25-11019
Quotation No.: Q23-32607		Chemtest Sample ID.:		1955113	1955115	1955116	1955118	1955119	1955120	1955121		
		Sample Location:		TP302	TP303	TP315	TP315(PFAS)	TP319	TP322	TP322		
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):		0.5	2.0	1.0	0.5	1.8	0.5	1.5		
		Date Sampled:		25-Mar-2025	25-Mar-2025	25-Mar-2025	25-Mar-2025	25-Mar-2025	25-Mar-2025	25-Mar-2025		
		Asbestos Lab:		DURHAM	DURHAM	DURHAM		DURHAM	DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
ACM Type		N	2192		N/A	-	-	-		-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	5.3	11	11		21	13	8.1
Soil Colour		N	2040		N/A	Brown	Brown	Brown		Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones		Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand		Clay	Sand	Clay
pH at 20C		M	2010		4.0	8.6	8.2	9		8.2	8.2	8.7
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	0.95	< 0.40		1.4	0.68	< 0.40
Sulphur (Elemental)		M	2180	mg/kg	1.0	3.4	< 1.0	< 1.0		210	2.9	< 1.0
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	9.8	8.7	6.8		7.6	4.4	3.5
Sulphate (Total)		U	2430	%	0.010	0.049	0.69	0.13		0.18	0.26	0.062
Arsenic		M	2455	mg/kg	0.5	5.7	12	8.7		8.5	28	5.7
Barium		M	2455	mg/kg	0.5	48	240	95		96	320	46
Cadmium		M	2455	mg/kg	0.10	0.4	0.32	0.52		0.88	0.91	0.55
Chromium		M	2455	mg/kg	0.5	9	28	15		25	22	12
Molybdenum		M	2455	mg/kg	0.5	0.7	2.2	0.8		0.9	9.3	1.2
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0	< 2.0		< 2.0	9.1	< 2.0
Copper		M	2455	mg/kg	0.50	12	280	23		18	680	22
Mercury		M	2455	mg/kg	0.05	0.12	0.29	0.19		0.18	0.32	0.08
Nickel		M	2455	mg/kg	0.50	17	38	22		30	92	18
Lead		M	2455	mg/kg	0.50	69	330	140		51	4500	73
Selenium		M	2455	mg/kg	0.25	0.52	1.3	0.5		1.3	5	0.41
Zinc		M	2455	mg/kg	0.50	31	180	51		60	490	34
Chromium (Trivalent)		N	2490	mg/kg	1.0	9	28	15		25	22	12
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25		< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	< 3.0	< 3.0		6	< 3.0	< 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10		< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0	< 5.0	< 5.0		7.2	< 5.0	< 5.0

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:		25-11019	25-11019	25-11019	25-11019	25-11019	25-11019	25-11019	25-11019
Quotation No.: Q23-32607		Chemtest Sample ID.:		1955113	1955115	1955116	1955118	1955119	1955120	1955121	
		Sample Location:		TP302	TP303	TP315	TP315(PFAS)	TP319	TP322	TP322	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		0.5	2.0	1.0	0.5	1.8	0.5	1.5	
		Date Sampled:		25-Mar-2025	25-Mar-2025	25-Mar-2025	25-Mar-2025	25-Mar-2025	25-Mar-2025	25-Mar-2025	
		Asbestos Lab:		DURHAM	DURHAM	DURHAM		DURHAM	DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25		< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	16	< 2.0		< 2.0	< 2.0
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	64	< 2.0		8	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0	2.4	< 1.0		1.2	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	< 5.0	80	< 5.0		8	< 5.0
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	< 10	83	< 10		15	< 10
Total Organic Carbon		M	2625	%	0.20	2.7	10	4.1		1.3	21
Mineral Oil EPH		N	2670	mg/kg	10	< 10	< 10	< 10		< 10	< 10
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	1.2	< 0.10		< 0.10	0.17
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	1.9	< 0.10		< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	0.18	< 0.10		< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	0.4	< 0.10		< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	5.3	< 0.10		< 0.10	0.31
Anthracene		M	2800	mg/kg	0.10	< 0.10	2	< 0.10		< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	19	0.72		< 0.10	0.2
Pyrene		M	2800	mg/kg	0.10	< 0.10	16	0.61		< 0.10	0.18
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	13	0.47		< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	11	0.38		< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	18	0.46		< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	6.2	0.21		< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	16	< 0.10		< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	10	< 0.10		< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	2.6	< 0.10		< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	9.7	< 0.10		< 0.10	< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
PCB 28		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010		< 0.010	< 0.010
PCB 52		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010		< 0.010	< 0.010

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:						25-11019	25-11019	25-11019	25-11019	25-11019	25-11019
Quotation No.: Q23-32607		Chemtest Sample ID.:						1955113	1955115	1955116	1955118	1955119	1955120
		Sample Location:						TP302	TP303	TP315	TP315(PFAS)	TP319	TP322
		Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):						0.5	2.0	1.0	0.5	1.8	0.5
		Date Sampled:						25-Mar-2025	25-Mar-2025	25-Mar-2025	25-Mar-2025	25-Mar-2025	25-Mar-2025
		Asbestos Lab:						DURHAM	DURHAM	DURHAM		DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
PCB 101		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010		< 0.010	< 0.010	< 0.010	< 0.010
PCB 118		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010		< 0.010	< 0.010	< 0.010	< 0.010
PCB 153		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010		< 0.010	< 0.010	< 0.010	< 0.010
PCB 138		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010		< 0.010	< 0.010	< 0.010	< 0.010
PCB 180		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010		< 0.010	< 0.010	< 0.010	< 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
PFAS Suite Soils		SN		µg/kg	0.0				See Attached				

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:		25-11019	
Quotation No.: Q23-32607		Chemtest Sample ID.:		1955123	
		Sample Location:		TP322(PFAS)	
		Sample Type:		SOIL	
		Top Depth (m):		0.5	
		Date Sampled:		25-Mar-2025	
		Asbestos Lab:			
Determinand	HWOL Code	Accred.	SOP	Units	LOD
ACM Type		N	2192		N/A
Asbestos Identification		U	2192		N/A
Moisture		N	2030	%	0.020
Soil Colour		N	2040		N/A
Other Material		N	2040		N/A
Soil Texture		N	2040		N/A
pH at 20C		M	2010		4.0
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40
Sulphur (Elemental)		M	2180	mg/kg	1.0
Cyanide (Total)		M	2300	mg/kg	0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50
Sulphate (Total)		U	2430	%	0.010
Arsenic		M	2455	mg/kg	0.5
Barium		M	2455	mg/kg	0.5
Cadmium		M	2455	mg/kg	0.10
Chromium		M	2455	mg/kg	0.5
Molybdenum		M	2455	mg/kg	0.5
Antimony		N	2455	mg/kg	2.0
Copper		M	2455	mg/kg	0.50
Mercury		M	2455	mg/kg	0.05
Nickel		M	2455	mg/kg	0.50
Lead		M	2455	mg/kg	0.50
Selenium		M	2455	mg/kg	0.25
Zinc		M	2455	mg/kg	0.50
Chromium (Trivalent)		N	2490	mg/kg	1.0
Chromium (Hexavalent)		N	2490	mg/kg	0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:		25-11019	
Quotation No.: Q23-32607		Chemtest Sample ID.:		1955123	
		Sample Location:		TP322(PFAS)	
		Sample Type:		SOIL	
		Top Depth (m):		0.5	
		Date Sampled:		25-Mar-2025	
		Asbestos Lab:			
Determinand	HWOL Code	Accred.	SOP	Units	LOD
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00
Total Organic Carbon		M	2625	%	0.20
Mineral Oil EPH		N	2670	mg/kg	10
Benzene		M	2760	µg/kg	1.0
Toluene		M	2760	µg/kg	1.0
Ethylbenzene		M	2760	µg/kg	1.0
m & p-Xylene		M	2760	µg/kg	1.0
o-Xylene		M	2760	µg/kg	1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0
Naphthalene		M	2800	mg/kg	0.10
Acenaphthylene		N	2800	mg/kg	0.10
Acenaphthene		M	2800	mg/kg	0.10
Fluorene		M	2800	mg/kg	0.10
Phenanthrene		M	2800	mg/kg	0.10
Anthracene		M	2800	mg/kg	0.10
Fluoranthene		M	2800	mg/kg	0.10
Pyrene		M	2800	mg/kg	0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10
Chrysene		M	2800	mg/kg	0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10
Coronene		N	2800	mg/kg	0.10
PCB 28		U	2815	mg/kg	0.010
PCB 52		U	2815	mg/kg	0.010

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.: 25-11019				
Quotation No.: Q23-32607		Chemtest Sample ID.: 1955123				
		Sample Location: TP322(PFAS)				
		Sample Type: SOIL				
		Top Depth (m): 0.5				
		Date Sampled: 25-Mar-2025				
		Asbestos Lab:				
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
PCB 101		U	2815	mg/kg	0.010	
PCB 118		U	2815	mg/kg	0.010	
PCB 153		U	2815	mg/kg	0.010	
PCB 138		U	2815	mg/kg	0.010	
PCB 180		U	2815	mg/kg	0.010	
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	
Total Phenols		M	2920	mg/kg	0.10	
PFAS Suite Soils		SN		µg/kg	0.0	See Attached

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-11019						Landfill Waste Acceptance Criteria						
Chemtest Sample ID: 1955113						Inert Waste Landfill	Limits					
Sample Ref:							Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill				
Sample ID:												
Sample Location: TP302												
Top Depth(m): 0.5												
Bottom Depth(m):												
Sampling Date: 25-Mar-2025						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill				
Determinand	SOP	HWOL Code	Accred.	Units								
Total Organic Carbon	2625		M	%					2.7	3	5	6
Loss On Ignition	2610		M	%					0.44	--	--	10
Total BTEX	2760		M	mg/kg					< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg					< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg					< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg					< 1.0	100	--	--
pH at 20C	2010		M						8.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg					0.022	--	To evaluate	To evaluate
Eluate Analysis												
					10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg					
Arsenic	1455		U	0.0040	0.040	0.5	2	25				
Barium	1455		U	0.010	0.10	20	100	300				
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5				
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70				
Copper	1455		U	0.0024	0.024	2	50	100				
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2				
Molybdenum	1455		U	0.0073	0.073	0.5	10	30				
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40				
Lead	1455		U	0.0007	0.0068	0.5	10	50				
Antimony	1455		U	0.0019	0.019	0.06	0.7	5				
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7				
Zinc	1455		U	0.005	0.050	4	50	200				
Chloride	1220		U	< 1.0	< 10	800	15000	25000				
Fluoride	1220		U	0.13	1.3	10	150	500				
Sulphate	1220		U	14	140	1000	20000	50000				
Total Dissolved Solids	1020		N	78	780	4000	60000	100000				
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-				
Dissolved Organic Carbon	1610		U	4.2	< 50	500	800	1000				

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	10
WAC Sample Weight	3443

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-11019						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1955115						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: TP303								
Top Depth(m): 2.0								
Bottom Depth(m):								
Sampling Date: 25-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	10	3	5	6
Loss On Ignition	2610		M	%	5.1	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.05	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	130	100	--	--
pH at 20C	2010		M		8.2	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0070	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0025	0.025	0.5	2	25
Barium	1455		U	0.009	0.087	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0029	0.029	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0021	0.021	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0019	0.019	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.004	0.044	4	50	200
Chloride	1220		U	2.6	26	800	15000	25000
Fluoride	1220		U	0.16	1.6	10	150	500
Sulphate	1220		U	13	130	1000	20000	50000
Total Dissolved Solids	1020		N	70	700	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	13
WAC Sample Weight	2602

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-11019						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1955116						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: TP315								
Top Depth(m): 1.0								
Bottom Depth(m):								
Sampling Date: 25-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	4.1	3	5	6
Loss On Ignition	2610		M	%	1.2	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	32	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	2.9	100	--	--
pH at 20C	2010		M		9.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0060	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0078	0.078	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0015	0.015	0.5	10	70
Copper	1455		U	0.0028	0.028	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0019	0.019	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0006	0.0058	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.004	0.043	4	50	200
Chloride	1220		U	1.1	11	800	15000	25000
Fluoride	1220		U	0.14	1.4	10	150	500
Sulphate	1220		U	4.0	40	1000	20000	50000
Total Dissolved Solids	1020		N	44	440	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.2	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	10
WAC Sample Weight	3059

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-11019						Landfill Waste Acceptance Criteria			
Chemtest Sample ID: 1955119						Inert Waste Landfill	Limits		
Sample Ref:							Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID:									
Sample Location: TP319									
Top Depth(m): 1.8									
Bottom Depth(m):									
Sampling Date: 25-Mar-2025									
Determinand	SOP	HWOL Code	Accred.	Units					
Total Organic Carbon	2625		M	%		1.3	3	5	6
Loss On Ignition	2610		M	%		4.3	--	--	10
Total BTEX	2760		M	mg/kg		< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg		< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg		47	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg		< 1.0	100	--	--
pH at 20C	2010		M			8.2	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg		0.012	--	To evaluate	To evaluate
Eluate Analysis						10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg	
Arsenic	1455		U	0.0010	0.010	0.5	2	25	
Barium	1455		U	0.006	0.062	20	100	300	
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5	
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70	
Copper	1455		U	0.0029	0.029	2	50	100	
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2	
Molybdenum	1455		U	0.0042	0.042	0.5	10	30	
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40	
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50	
Antimony	1455		U	0.0011	0.011	0.06	0.7	5	
Selenium	1455		U	0.0008	0.0075	0.1	0.5	7	
Zinc	1455		U	0.004	0.039	4	50	200	
Chloride	1220		U	< 1.0	< 10	800	15000	25000	
Fluoride	1220		U	0.18	1.8	10	150	500	
Sulphate	1220		U	8.9	89	1000	20000	50000	
Total Dissolved Solids	1020		N	94	930	4000	60000	100000	
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-	
Dissolved Organic Carbon	1610		U	6.9	69	500	800	1000	

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	17
WAC Sample Weight	2859

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-11019						Landfill Waste Acceptance Criteria						
Chemtest Sample ID: 1955120						Inert Waste Landfill	Limits					
Sample Ref:							Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill				
Sample ID:												
Sample Location: TP322												
Top Depth(m): 0.5												
Bottom Depth(m):												
Sampling Date: 25-Mar-2025						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill				
Determinand	SOP	HWOL Code	Accred.	Units								
Total Organic Carbon	2625		M	%					21	3	5	6
Loss On Ignition	2610		M	%					8.7	--	--	10
Total BTEX	2760		M	mg/kg					< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg					< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg					< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg					< 1.0	100	--	--
pH at 20C	2010		M						8.2	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg					0.050	--	To evaluate	To evaluate
Eluate Analysis									10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg	
Arsenic	1455		U	0.014	0.14	0.5	2	25				
Barium	1455		U	0.006	0.055	20	100	300				
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5				
Chromium	1455		U	0.0028	0.029	0.5	10	70				
Copper	1455		U	0.014	0.14	2	50	100				
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2				
Molybdenum	1455		U	0.0044	0.044	0.5	10	30				
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40				
Lead	1455		U	0.0040	0.040	0.5	10	50				
Antimony	1455		U	0.0011	0.011	0.06	0.7	5				
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7				
Zinc	1455		U	0.003	0.028	4	50	200				
Chloride	1220		U	1.5	15	800	15000	25000				
Fluoride	1220		U	0.19	1.9	10	150	500				
Sulphate	1220		U	9.8	98	1000	20000	50000				
Total Dissolved Solids	1020		N	67	670	4000	60000	100000				
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-				
Dissolved Organic Carbon	1610		U	3.4	< 50	500	800	1000				

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	13
WAC Sample Weight	2553

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-11019						Landfill Waste Acceptance Criteria						
Chemtest Sample ID: 1955121						Inert Waste Landfill	Limits					
Sample Ref:							Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill				
Sample ID:												
Sample Location: TP322												
Top Depth(m): 1.5												
Bottom Depth(m):												
Sampling Date: 25-Mar-2025						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill				
Determinand	SOP	HWOL Code	Accred.	Units								
Total Organic Carbon	2625		M	%					5.0	3	5	6
Loss On Ignition	2610		M	%					0.96	--	--	10
Total BTEX	2760		M	mg/kg					< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg					< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg					18	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg					< 1.0	100	--	--
pH at 20C	2010		M						8.7	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg					0.029	--	To evaluate	To evaluate
Eluate Analysis									10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg	
Arsenic	1455		U	0.0002	0.0020	0.5	2	25				
Barium	1455		U	< 0.005	< 0.050	20	100	300				
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5				
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70				
Copper	1455		U	0.0014	0.014	2	50	100				
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2				
Molybdenum	1455		U	0.014	0.14	0.5	10	30				
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40				
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50				
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5				
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7				
Zinc	1455		U	0.006	0.063	4	50	200				
Chloride	1220		U	< 1.0	< 10	800	15000	25000				
Fluoride	1220		U	0.30	3.0	10	150	500				
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000				
Total Dissolved Solids	1020		N	51	510	4000	60000	100000				
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-				
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000				

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	17
WAC Sample Weight	3135

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW PL LE DW GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7 Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 25-10744-1

Initial Date of Issue: 14-Apr-2025

Re-Issue Details:

Client Priority Geotechnical Ltd

Client Address: Unit 12
Owenacurra Business Park
Midleton
County Cork
Ireland

Contact(s): Colette Kelly

Project P25019 Cleeves

Quotation No.: Q23-32607

Date Received: 28-Mar-2025

Order No.: 16776

Date Instructed: 31-Mar-2025

No. of Samples: 7

Turnaround (Wkdays): 5

Results Due: 04-Apr-2025

Date Approved: 14-Apr-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd	Chemtest Job No.:						25-10744	25-10744	25-10744	25-10744	25-10744	25-10744	25-10744
Quotation No.: Q23-32607	Chemtest Sample ID.:						1954141	1954144	1954146	1954148	1954149	1954151	1954155
	Sample Location:						BH311	BH311	TP319	BH310	BH310	BH312	TP310
	Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):						2.5	0.5	1.5	1.5	0.5	0.5	0.5
	Date Sampled:						21-Mar-2025	21-Mar-2025	24-Mar-2025	21-Mar-2025	21-Mar-2025	24-Mar-2025	24-Mar-2025
Determinand	Accred.	SOP	Type	Units	LOD								
Ammonium	U	1220	10:1	mg/l	0.050	0.23	0.29	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Ammonium	N	1220	10:1	mg/kg	0.10	2.6	3.5	0.14	0.26	0.32	0.29	0.43	

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:		25-10744	25-10744	25-10744	25-10744	25-10744	25-10744	25-10744	25-10744	25-10744
Quotation No.: Q23-32607		Chemtest Sample ID.:		1954141	1954144	1954146	1954148	1954149	1954151	1954155		
		Sample Location:		BH311	BH311	TP319	BH310	BH310	BH312	TP310		
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):		2.5	0.5	1.5	1.5	0.5	0.5	0.5		
		Date Sampled:		21-Mar-2025	21-Mar-2025	24-Mar-2025	21-Mar-2025	21-Mar-2025	24-Mar-2025	24-Mar-2025		
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
ACM Type		N	2192		N/A	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	23	14	13	15	7.4	8.2	5.9
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones and tile	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Sand	Clay	Clay	Sand	Clay	Sand
pH at 20C		M	2010		4.0	8.0	8.4	8.7	8.7	10.2	9.3	8.7
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.63	0.52	< 0.40	< 0.40	0.51	< 0.40	< 0.40
Sulphur (Elemental)		M	2180	mg/kg	1.0	31	< 1.0	< 1.0	< 1.0	8.4	< 1.0	< 1.0
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	0.50	< 0.50	1.2	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	3.8	3.9	4.3	2.4	4.5	13	4.0
Sulphate (Total)		U	2430	%	0.010	0.18	0.36	0.13	0.51	0.31	0.087	0.052
Arsenic		M	2455	mg/kg	0.5	10	34	11	20	15	8.3	5.8
Barium		M	2455	mg/kg	0.5	150	160	97	120	210	57	36
Cadmium		M	2455	mg/kg	0.10	0.29	0.34	0.65	0.53	0.17	0.51	0.14
Chromium		M	2455	mg/kg	0.5	14	22	25	24	16	17	17
Molybdenum		M	2455	mg/kg	0.5	1.5	3.6	2.1	2.3	9.1	1.2	< 0.5
Antimony		N	2455	mg/kg	2.0	< 2.0	17	< 2.0	< 2.0	2.2	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	730	470	16	110	34	14	11
Mercury		M	2455	mg/kg	0.05	0.34	0.56	0.20	0.90	0.11	0.08	< 0.05
Nickel		M	2455	mg/kg	0.50	30	48	27	32	31	23	17
Lead		M	2455	mg/kg	0.50	690	6400	60	370	180	22	9.2
Selenium		M	2455	mg/kg	0.25	0.56	0.51	0.66	0.83	0.44	0.50	0.29
Zinc		M	2455	mg/kg	0.50	34	200	45	110	37	41	25
Chromium (Trivalent)		N	2490	mg/kg	1.0	14	22	25	24	16	17	17
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	6.1	2.4	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	4.6	14	< 3.0	3.2	21	12	11
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	11	16	< 5.0	< 5.0	22	12	11

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:	25-10744	25-10744	25-10744	25-10744	25-10744	25-10744	25-10744	25-10744
Quotation No.: Q23-32607		Chemtest Sample ID.:	1954141	1954144	1954146	1954148	1954149	1954151	1954155	
		Sample Location:	BH311	BH311	TP319	BH310	BH310	BH312	TP310	
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):	2.5	0.5	1.5	1.5	0.5	0.5	0.5	
		Date Sampled:	21-Mar-2025	21-Mar-2025	24-Mar-2025	21-Mar-2025	21-Mar-2025	24-Mar-2025	24-Mar-2025	
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	1.3	75	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	270	1800	23	11	49
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	360	4300	26	8.1	9.4
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	89	450	< 1.0	1.3	8.9
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	630	6100	50	19	58
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	640	6100	50	23	80
Total Organic Carbon		M	2625	%	0.20	6.6	23	4.8	4.5	7.7
Mineral Oil EPH		N	2670	mg/kg	10	11	16	< 10	< 10	22
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.2
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	0.25	< 0.10	< 0.10	< 0.10	0.25
Acenaphthylene		N	2800	mg/kg	0.10	0.50	< 0.10	< 0.10	< 0.10	0.29
Acenaphthene		M	2800	mg/kg	0.10	0.15	0.75	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	0.28	0.82	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	3.0	13	0.11	0.16	0.40
Anthracene		M	2800	mg/kg	0.10	0.85	2.5	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	6.1	18	0.20	0.26	0.25
Pyrene		M	2800	mg/kg	0.10	6.4	14	0.19	0.20	0.25
Benzo[a]anthracene		M	2800	mg/kg	0.10	4.4	8.6	< 0.10	< 0.10	0.14
Chrysene		M	2800	mg/kg	0.10	4.6	9.3	< 0.10	0.12	0.20
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	6.6	11	< 0.10	< 0.10	0.12
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	2.5	3.8	< 0.10	< 0.10	0.57
Benzo[a]pyrene		M	2800	mg/kg	0.10	5.2	7.2	< 0.10	0.13	0.15
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	2.8	4.1	< 0.10	0.25	0.11
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.79	1.0	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	2.9	4.1	< 0.10	0.36	< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
PCB 28		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 52		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:		25-10744	25-10744	25-10744	25-10744	25-10744	25-10744	25-10744	25-10744	25-10744
Quotation No.: Q23-32607		Chemtest Sample ID.:		1954141	1954144	1954146	1954148	1954149	1954151	1954155		
		Sample Location:		BH311	BH311	TP319	BH310	BH310	BH312	TP310		
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):		2.5	0.5	1.5	1.5	0.5	0.5	0.5		
		Date Sampled:		21-Mar-2025	21-Mar-2025	24-Mar-2025	21-Mar-2025	21-Mar-2025	24-Mar-2025	24-Mar-2025		
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
PCB 101		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 118		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 153		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 138		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 180		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	5.4	< 0.10	< 0.10	< 0.10	< 0.10

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-10744						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1954141						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: BH311								
Top Depth(m): 2.5								
Bottom Depth(m):								
Sampling Date: 21-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	6.6	3	5	6
Loss On Ignition	2610		M	%	5.4	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	1000	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	47	100	--	--
pH at 20C	2010		M		8.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.015	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0020	0.020	0.5	2	25
Barium	1455		U	0.018	0.18	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.025	0.25	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0032	0.032	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.012	0.12	0.5	10	50
Antimony	1455		U	0.0009	0.0090	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.007	0.073	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.17	1.7	10	150	500
Sulphate	1220		U	13	130	1000	20000	50000
Total Dissolved Solids	1020		N	81	800	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	4.3	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	26
WAC Sample Weight	2224

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Project: 120020 - Golevici						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-10744						Limits		
Chemtest Sample ID: 1954144						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample Ref:								
Sample ID:								
Sample Location: BH311								
Top Depth(m): 0.5								
Bottom Depth(m):								
Sampling Date: 21-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	23	3	5	6
Loss On Ignition	2610		M	%	22	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	27000	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	98	100	--	--
pH at 20C	2010		M		8.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0040	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0056	0.055	0.5	2	25
Barium	1455		U	0.007	0.072	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0005	0.0054	0.5	10	70
Copper	1455		U	0.024	0.24	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0033	0.033	0.5	10	30
Nickel	1455		U	0.0008	0.0082	0.4	10	40
Lead	1455		U	0.061	0.61	0.5	10	50
Antimony	1455		U	0.0012	0.012	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.008	0.080	4	50	200
Chloride	1220		U	1.5	15	800	15000	25000
Fluoride	1220		U	0.16	1.6	10	150	500
Sulphate	1220		U	9.2	92	1000	20000	50000
Total Dissolved Solids	1020		N	44	440	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	6.9	69	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	23
WAC Sample Weight	2014

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Project: TP319 Overview						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-10744						Limits		
Chemtest Sample ID: 1954146						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample Ref:								
Sample ID:								
Sample Location: TP319								
Top Depth(m): 1.5								
Bottom Depth(m):								
Sampling Date: 24-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	4.8	3	5	6
Loss On Ignition	2610		M	%	1.8	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.7	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.010	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0007	0.0072	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0015	0.015	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0015	0.015	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0006	0.0065	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.004	0.038	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.18	1.8	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	45	440	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.8	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	16
WAC Sample Weight	3524

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-10744						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1954148						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: BH310								
Top Depth(m): 1.5								
Bottom Depth(m):								
Sampling Date: 21-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	4.5	3	5	6
Loss On Ignition	2610		M	%	3.2	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH CU 1D Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	1.5	100	--	--
pH at 20C	2010		M		8.7	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.021	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0063	0.063	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0031	0.031	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0014	0.014	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0021	0.021	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.004	0.040	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.10	1.0	10	150	500
Sulphate	1220		U	2.4	24	1000	20000	50000
Total Dissolved Solids	1020		N	34	340	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.7	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	13
WAC Sample Weight	2697

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-10744						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1954149						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: BH310								
Top Depth(m): 0.5								
Bottom Depth(m):								
Sampling Date: 21-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	7.7	3	5	6
Loss On Ignition	2610		M	%	5.3	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	130	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	1.9	100	--	--
pH at 20C	2010		M		10.2	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0090	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0006	0.0060	0.5	2	25
Barium	1455		U	0.009	0.086	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0014	0.014	0.5	10	70
Copper	1455		U	0.0027	0.027	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0016	0.016	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	0.0007	0.0067	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.004	0.041	4	50	200
Chloride	1220		U	8.1	81	800	15000	25000
Fluoride	1220		U	0.25	2.5	10	150	500
Sulphate	1220		U	7.8	78	1000	20000	50000
Total Dissolved Solids	1020		N	180	1800	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	10
WAC Sample Weight	2582

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-10744						Landfill Waste Acceptance Criteria Limits		
Chemtest Sample ID: 1954151						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample Ref:								
Sample ID:								
Sample Location: BH312								
Top Depth(m): 0.5								
Bottom Depth(m):								
Sampling Date: 24-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	4.9	3	5	6
Loss On Ignition	2610		M	%	0.82	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	19	100	--	--
pH at 20C	2010		M		9.3	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.016	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0008	0.0081	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0021	0.021	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0038	0.039	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.004	0.040	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.10	1.0	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	33	330	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.7	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	8.4
WAC Sample Weight	2603

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-10744						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1954155						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: TP310								
Top Depth(m): 0.5								
Bottom Depth(m):								
Sampling Date: 24-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	1.6	3	5	6
Loss On Ignition	2610		M	%	1.2	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.7	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.019	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0020	0.020	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0017	0.017	0.5	10	70
Copper	1455		U	0.0013	0.013	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0004	0.0044	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.004	0.042	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.10	1.0	10	150	500
Sulphate	1220		U	2.8	28	1000	20000	50000
Total Dissolved Solids	1020		N	43	430	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	6.2
WAC Sample Weight	3160

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW PL LE DW GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N–dimethyl-p-phenylenediamine.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 25-10384-1

Initial Date of Issue: 08-Apr-2025

Re-Issue Details:

Client Priority Geotechnical Ltd

Client Address: Unit 12
Owenacurra Business Park
Midleton
County Cork
Ireland

Contact(s): Colette Kelly

Project P25019 Cleeves Riverside Quarter

Quotation No.: Q23-32607

Date Received: 26-Mar-2025

Order No.: 16776

Date Instructed: 26-Mar-2025

No. of Samples: 6

Turnaround (Wkdays): 5

Results Due: 01-Apr-2025

Date Approved: 08-Apr-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: P25019 Cleeves Riverside Quarter

Client: Priority Geotechnical Ltd	Chemtest Job No.:						25-10384	25-10384	25-10384	25-10384	25-10384	25-10384
Quotation No.: Q23-32607	Chemtest Sample ID.:						1952631	1952632	1952633	1952634	1952635	1952636
	Sample Location:						BH304	BH314	BH315	BH315	BH316	BH316
	Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):						1.50	1.50	0.50	2.50	1.50	2.50
	Bottom Depth (m):											
	Date Sampled:						18-Mar-2025	18-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025
Determinand	Accred.	SOP	Type	Units	LOD							
Ammonium	U	1220	10:1	mg/l	0.050	0.07	0.057	< 0.050	< 0.050	0.059	0.082	
Ammonium	N	1220	10:1	mg/kg	0.10	0.77	0.82	0.52	1.3	0.82	0.98	

Results - Soil

Project: P25019 Cleeves Riverside Quarter

Client: Priority Geotechnical Ltd		Chemtest Job No.: 25-10384						25-10384	25-10384	25-10384	25-10384	25-10384	25-10384
Quotation No.: Q23-32607		Chemtest Sample ID.: 1952631						1952632	1952633	1952634	1952635	1952636	1952636
		Sample Location:						BH304	BH314	BH315	BH315	BH316	BH316
		Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):						1.50	1.50	0.50	2.50	1.50	2.50
		Bottom Depth (m):											
		Date Sampled:						18-Mar-2025	18-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025
		Asbestos Lab:						DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
ACM Type		N	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	22	14	8.2	14	14	14	14	14
Soil Colour		N	2040		N/A	Brown	Brown	Black	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots and	Stones and	Stones and	Stones and	Stones and	Stones and	Stones and	Stones and
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Clay	Clay	Clay	Clay	Clay
pH at 20C		M	2010		4.0	8.5	9	11.4	8.2	8.6	8.2	8.2	8.2
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.59	< 0.40	0.82	1.1	0.69	0.73	0.73	0.73
Sulphur (Elemental)		M	2180	mg/kg	1.0	12	3.3	1.9	1.9	2.7	23	23	23
Cyanide (Total)		M	2300	mg/kg	0.50	1.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	7	3.7	14	5.7	4.8	12	12	12
Sulphate (Total)		U	2430	%	0.010	0.2	0.13	1.7	0.19	0.11	0.13	0.13	0.13
Arsenic		M	2455	mg/kg	0.5	4.8	8.2	11	4	8.5	4.8	4.8	4.8
Barium		M	2455	mg/kg	0.5	34	110	97	36	60	40	40	40
Cadmium		M	2455	mg/kg	0.10	< 0.10	0.33	0.29	0.48	0.78	0.45	0.45	0.45
Chromium		M	2455	mg/kg	0.5	1.5	12	27	10	18	11	11	11
Molybdenum		M	2455	mg/kg	0.5	1	1.7	2.3	0.6	1.1	0.6	0.6	0.6
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	12	110	48	9.5	17	12	12	12
Mercury		M	2455	mg/kg	0.05	0.22	0.15	0.24	0.24	0.17	0.24	0.24	0.24
Nickel		M	2455	mg/kg	0.50	4.9	22	48	14	28	19	19	19
Lead		M	2455	mg/kg	0.50	110	280	170	23	49	26	26	26
Selenium		M	2455	mg/kg	0.25	< 0.25	0.53	1.1	0.49	0.49	0.41	0.41	0.41
Zinc		M	2455	mg/kg	0.50	23	63	77	25	42	30	30	30
Chromium (Trivalent)		N	2490	mg/kg	1.0	1.5	12	27	10	18	11	11	11
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	6.8	2	3.7	5.2	2.1	2.1	2.1	2.1
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	8.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	10	4.6	< 2.0	< 2.0	2.5	3.6	3.6	3.6
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	15	220	30	16	9.2	17	17	17

Results - Soil

Project: P25019 Cleeves Riverside Quarter

Client: Priority Geotechnical Ltd		Chemtest Job No.: 25-10384						25-10384	25-10384	25-10384	25-10384	25-10384	25-10384
Quotation No.: Q23-32607		Chemtest Sample ID.: 1952631						1952632	1952633	1952634	1952635	1952636	1952636
		Sample Location:						BH304	BH314	BH315	BH315	BH316	BH316
		Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):						1.50	1.50	0.50	2.50	1.50	2.50
		Bottom Depth (m):											
		Date Sampled:						18-Mar-2025	18-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025
		Asbestos Lab:						DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	13	34	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	41	230	35	23	14	23	23	23
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	4.9	< 1.0	1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	27	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	63	6	< 2.0	6.6	4.1	4.9	4.9	4.9
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	110	7.5	5.7	43	7.1	13	13	13
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	22	6.3	8.3	17	12	9.2	9.2	9.2
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	210	14	8.4	50	11	19	19	19
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	250	240	44	73	26	42	42	42
Total Organic Carbon		M	2625	%	0.20	13	5	2.5	2.8	2	2.1	2.1	2.1
Mineral Oil EPH		N	2670	mg/kg	10	54	260	35	23	14	23	23	23
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	3	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	0.59	0.12	0.22	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	0.18	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	0.26	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	2.2	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	0.36	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	2.4	0.19	0.11	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	1.8	0.23	0.12	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.2	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	1.4	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.65	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.32	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.68	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.64	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: P25019 Cleeves Riverside Quarter

Client: Priority Geotechnical Ltd		Chemtest Job No.:						25-10384	25-10384	25-10384	25-10384	25-10384	25-10384
Quotation No.: Q23-32607		Chemtest Sample ID.:						1952631	1952632	1952633	1952634	1952635	1952636
		Sample Location:						BH304	BH314	BH315	BH315	BH316	BH316
		Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):						1.50	1.50	0.50	2.50	1.50	2.50
		Bottom Depth (m):											
		Date Sampled:						18-Mar-2025	18-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025	19-Mar-2025
		Asbestos Lab:						DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
PCB 28		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 52		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 101		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 118		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 153		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 138		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 180		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Chemtest Job No: 25-10384						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1952631						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: BH304								
Top Depth(m): 1.50								
Bottom Depth(m):								
Sampling Date: 18-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	13	3	5	6
Loss On Ignition	2610		M	%	13	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	310	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	14	100	--	--
pH at 20C	2010		M		8.5	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.031	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0025	0.025	0.5	2	25
Barium	1455		U	0.050	0.50	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.011	0.11	2	50	100
Mercury	1455		U	0.00008	0.00078	0.01	0.2	2
Molybdenum	1455		U	0.0045	0.045	0.5	10	30
Nickel	1455		U	0.0010	0.0098	0.4	10	40
Lead	1455		U	0.11	1.1	0.5	10	50
Antimony	1455		U	0.0024	0.024	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.022	0.22	4	50	200
Chloride	1220		U	1.8	18	800	15000	25000
Fluoride	1220		U	0.37	3.7	10	150	500
Sulphate	1220		U	12	120	1000	20000	50000
Total Dissolved Solids	1020		N	94	940	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	4.6	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	9.0
WAC Sample Weight	2124

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Chemtest Job No: 25-10384						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1952632						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: BH314								
Top Depth(m): 1.50								
Bottom Depth(m):								
Sampling Date: 18-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	5.0	3	5	6
Loss On Ignition	2610		M	%	3.0	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		9.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.096	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0040	0.040	0.5	2	25
Barium	1455		U	0.009	0.085	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0025	0.025	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0048	0.048	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0008	0.0081	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.004	0.041	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.16	1.6	10	150	500
Sulphate	1220		U	2.7	27	1000	20000	50000
Total Dissolved Solids	1020		N	46	460	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.7	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	6.4
WAC Sample Weight	3549

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Chemtest Job No: 25-10384						Landfill Waste Acceptance Criteria Limits		
Chemtest Sample ID: 1952633						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample Ref:								
Sample ID:								
Sample Location: BH315								
Top Depth(m): 0.50								
Bottom Depth(m):								
Sampling Date: 19-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	2.5	3	5	6
Loss On Ignition	2610		M	%	3.9	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		11.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.14	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	< 0.0002	< 0.0020	0.5	2	25
Barium	1455		U	0.069	0.69	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0050	0.050	0.5	10	70
Copper	1455		U	0.0036	0.036	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0080	0.080	0.5	10	30
Nickel	1455		U	0.0011	0.011	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.007	0.071	4	50	200
Chloride	1220		U	4.1	41	800	15000	25000
Fluoride	1220		U	0.17	1.7	10	150	500
Sulphate	1220		U	130	1300	1000	20000	50000
Total Dissolved Solids	1020		N	700	7000	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.1	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	11
WAC Sample Weight	2225

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Chemtest Job No: 25-10384						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1952634						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: BH315								
Top Depth(m): 2.50								
Bottom Depth(m):								
Sampling Date: 19-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	2.8	3	5	6
Loss On Ignition	2610		M	%	1.7	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.2	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.022	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0011	0.011	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0022	0.022	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0023	0.023	0.5	10	30
Nickel	1455		U	0.0006	0.0056	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	0.0007	0.0073	0.06	0.7	5
Selenium	1455		U	0.0007	0.0074	0.1	0.5	7
Zinc	1455		U	0.006	0.056	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.16	1.6	10	150	500
Sulphate	1220		U	6.3	63	1000	20000	50000
Total Dissolved Solids	1020		N	61	610	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	4.4	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	14
WAC Sample Weight	2016

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Chemtest Job No: 25-10384						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1952635						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: BH316								
Top Depth(m): 1.50								
Bottom Depth(m):								
Sampling Date: 19-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	2.0	3	5	6
Loss On Ignition	2610		M	%	2.1	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.027	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0023	0.023	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0011	0.011	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0068	0.068	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	0.0005	0.0054	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.003	0.027	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.18	1.8	10	150	500
Sulphate	1220		U	1.8	18	1000	20000	50000
Total Dissolved Solids	1020		N	56	560	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	3.0
WAC Sample Weight	2425

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Chemtest Job No: 25-10384						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1952636						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: BH316								
Top Depth(m): 2.50								
Bottom Depth(m):								
Sampling Date: 19-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	2.1	3	5	6
Loss On Ignition	2610		M	%	2.4	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.2	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.036	--	To evaluate	To evaluate
Eluate Analysis					10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg	
Arsenic	1455		U	0.0016	0.016	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0016	0.016	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0049	0.049	0.5	10	30
Nickel	1455		U	0.0006	0.0057	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	0.0007	0.0070	0.06	0.7	5
Selenium	1455		U	0.0010	0.0098	0.1	0.5	7
Zinc	1455		U	0.006	0.060	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.22	2.2	10	150	500
Sulphate	1220		U	6.7	67	1000	20000	50000
Total Dissolved Solids	1020		N	70	700	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.4	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	6.4
WAC Sample Weight	2899

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW PL LE DW GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N–dimethyl-p-phenylenediamine.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

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Any comments or interpretations are outside the scope of UKAS accreditation.

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Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Final Report

Report No.: 25-09823-1

Initial Date of Issue: 07-Apr-2025

Re-Issue Details:

Client Priority Geotechnical Ltd

Client Address: Unit 12
 Owenacurra Business Park
 Midleton
 County Cork
 Ireland

Contact(s): Colette Kelly

Project P25019 Cleeves Riverside Quarter

Quotation No.: Q24-36680 **Date Received:** 24-Mar-2025

Order No.: 16776 **Date Instructed:** 24-Mar-2025

No. of Samples: 2

Turnaround (Wkdays): 15 **Results Due:** 11-Apr-2025

Date Approved: 07-Apr-2025 **Subcon Results Due:** 14-Apr-2025

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: P25019 Cleeves Riverside Quarter

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-09823	25-09823
Quotation No.: Q24-36680		Chemtest Sample ID.:				1950772	1950773
		Sample Location:				TP301	TP304
		Sample Type:				SOIL	SOIL
		Top Depth (m):				1.20	0.50
		Date Sampled:				14-Mar-2025	14-Mar-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
PFAS Top Assay Soil		SN		µg/kg	1.00	See Attached	See Attached
PFAS Suite Soils		SN		µg/kg	0.0	See Attached	See Attached

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DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

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A - Date of sampling not supplied

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C - Sample not received in appropriate containers

D - Broken Container

E - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

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PL - Prepared Leachate
PW - Processed Water
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HWOL Acronym System

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CU - Clean-up – e.g. by Florisil, silica gel
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Total - Aliphatics & Aromatics
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#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 25-09806-1

Initial Date of Issue: 07-Apr-2025

Re-Issue Details:

Client Priority Geotechnical Ltd

Client Address: Unit 12
Owenacurra Business Park
Midleton
County Cork
Ireland

Contact(s): Colette Kelly

Project P25019 Cleeves Riverside Quarter

Quotation No.: Q23-32607

Date Received: 21-Mar-2025

Order No.: 16776

Date Instructed: 21-Mar-2025

No. of Samples: 6

Turnaround (Wkdays): 5

Results Due: 27-Mar-2025

Date Approved: 07-Apr-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: P25019 Cleeves Riverside Quarter

Client: Priority Geotechnical Ltd	Chemtest Job No.:						25-09806	25-09806	25-09806	25-09806	25-09806	25-09806
Quotation No.: Q23-32607	Chemtest Sample ID.:						1950712	1950713	1950714	1950715	1950716	1950717
	Sample Location:						TP301	TP301	TP304	TP304	TP305	TP305
	Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):						0.5	1.2	0.5	1.5	0.5	1.8
	Date Sampled:						14-Mar-2025	14-Mar-2025	14-Mar-2025	14-Mar-2025	14-Mar-2025	14-Mar-2025
Determinand	Accred.	SOP	Type	Units	LOD							
Ammonium	U	1220	10:1	mg/l	0.050	0.14	0.13	0.18	0.15	0.16	0.16	0.16
Ammonium	N	1220	10:1	mg/kg	0.10	2.1	2.2	2.2	1.9	1.9	1.8	1.8

Results - Soil

Project: P25019 Cleaves Riverside Quarter

Client: Priority Geotechnical Ltd		Chemtest Job No.:		25-09806	25-09806	25-09806	25-09806	25-09806	25-09806	25-09806
Quotation No.: Q23-32607		Chemtest Sample ID.:		1950712	1950713	1950714	1950715	1950716	1950717	
		Sample Location:		TP301	TP301	TP304	TP304	TP305	TP305	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		0.5	1.2	0.5	1.5	0.5	1.8	
		Date Sampled:		14-Mar-2025	14-Mar-2025	14-Mar-2025	14-Mar-2025	14-Mar-2025	14-Mar-2025	
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
ACM Type		N	2192		N/A	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	8.6	6.7	9.5	13	8.0
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Loam	Loam	Clay	Clay	Clay
pH at 20C		M	2010		4.0	9.7	9.5	8.8	8.6	8.8
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	< 0.40	0.43	0.95	< 0.40
Sulphur (Elemental)		M	2180	mg/kg	1.0	< 1.0	< 1.0	3.3	< 1.0	9.1
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	2.5	5.5	3.6	2.6	7.4
Sulphate (Total)		U	2430	%	0.010	0.062	0.039	0.070	0.056	0.70
Arsenic		M	2455	mg/kg	0.5	7.4	4.4	8.8	9.2	8.8
Barium		M	2455	mg/kg	0.5	88	28	110	120	90
Cadmium		M	2455	mg/kg	0.10	0.36	0.32	0.48	0.67	0.26
Chromium		M	2455	mg/kg	0.5	12	7.9	14	16	20
Molybdenum		M	2455	mg/kg	0.5	< 0.5	< 0.5	0.9	1.1	1.0
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	21	7.5	17	18	21
Mercury		M	2455	mg/kg	0.05	0.06	< 0.05	0.16	0.18	0.08
Nickel		M	2455	mg/kg	0.50	17	10	18	23	39
Lead		M	2455	mg/kg	0.50	66	21	150	160	57
Selenium		M	2455	mg/kg	0.25	0.29	< 0.25	0.53	0.76	0.82
Zinc		M	2455	mg/kg	0.50	45	18	61	54	69
Chromium (Trivalent)		N	2490	mg/kg	1.0	12	7.9	14	16	20
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Results - Soil

Project: P25019 Cleeves Riverside Quarter

Client: Priority Geotechnical Ltd		Chemtest Job No.:	25-09806	25-09806	25-09806	25-09806	25-09806	25-09806	25-09806
Quotation No.: Q23-32607		Chemtest Sample ID.:	1950712	1950713	1950714	1950715	1950716	1950717	
		Sample Location:	TP301	TP301	TP304	TP304	TP305	TP305	
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):	0.5	1.2	0.5	1.5	0.5	1.8	
		Date Sampled:	14-Mar-2025	14-Mar-2025	14-Mar-2025	14-Mar-2025	14-Mar-2025	14-Mar-2025	
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	6.5	6.6	6.5	7.7
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	1.5	< 1.0	1.2	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	6.7	6.7	6.8	8.1
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	< 10	< 10	< 10	< 10
Total Organic Carbon		M	2625	%	0.20	0.74	5.2	1.3	1.1
Mineral Oil EPH		N	2670	mg/kg	10	< 10	< 10	< 10	< 10
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
PCB 28		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 52		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 101		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010

Results - Soil

Project: P25019 Cleeves Riverside Quarter

Client: Priority Geotechnical Ltd		Chemtest Job No.:					25-09806	25-09806	25-09806	25-09806	25-09806	25-09806
Quotation No.: Q23-32607		Chemtest Sample ID.:					1950712	1950713	1950714	1950715	1950716	1950717
		Sample Location:					TP301	TP301	TP304	TP304	TP305	TP305
		Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):					0.5	1.2	0.5	1.5	0.5	1.8
		Date Sampled:					14-Mar-2025	14-Mar-2025	14-Mar-2025	14-Mar-2025	14-Mar-2025	14-Mar-2025
		Asbestos Lab:					DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
PCB 118		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 153		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 138		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 180		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Project: T 2025 Obeyesekere Riverside Quarter						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-09806 Chemtest Sample ID: 1950712 Sample Ref: Sample ID: Sample Location: TP301 Top Depth(m): 0.5 Bottom Depth(m): Sampling Date: 14-Mar-2025						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.74	3	5	6
Loss On Ignition	2610		M	%	0.68	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		9.7	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.054	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0034	0.034	0.5	2	25
Barium	1455		U	0.005	0.054	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0010	0.011	0.5	10	70
Copper	1455		U	0.0016	0.016	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0004	0.0044	0.5	10	30
Nickel	1455		U	0.0007	0.0075	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	0.0007	0.0069	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.010	0.10	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.098	< 1.0	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	32	320	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.2	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	7.3
WAC Sample Weight	2466

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleaves Riverside Quarter

Project: T20020 Groves Riverside Quarter						Landfill Waste Acceptance Criteria Limits			
Chemtest Job No: 25-09806		Chemtest Sample ID: 1950713		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill		
Sample Ref:		Sample ID:							
Sample Location: TP301									
Top Depth(m): 1.2									
Bottom Depth(m):									
Sampling Date: 14-Mar-2025									
Determinand	SOP	HWOL Code	Accred.	Units					
Total Organic Carbon	2625		M	%	5.2	3	5		6
Loss On Ignition	2610		M	%	0.15	--	--		10
Total BTEX	2760		M	mg/kg	< 0.010	6	--		--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--		--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	33	500	--		--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--		--
pH at 20C	2010		M		9.5	--	>6		--
Acid Neutralisation Capacity	2015		N	mol/kg	0.052	--	To evaluate		To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg			
Arsenic	1455		U	0.0005	0.0055	0.5	2		25
Barium	1455		U	< 0.005	< 0.050	20	100		300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1		5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10		70
Copper	1455		U	0.0012	0.012	2	50		100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2		2
Molybdenum	1455		U	0.0004	0.0039	0.5	10		30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10		40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10		50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7		5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5		7
Zinc	1455		U	0.005	0.047	4	50		200
Chloride	1220		U	< 1.0	< 10	800	15000		25000
Fluoride	1220		U	0.097	< 1.0	10	150		500
Sulphate	1220		U	< 1.0	< 10	1000	20000		50000
Total Dissolved Solids	1020		N	32	320	4000	60000		100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-		-
Dissolved Organic Carbon	1610		U	2.8	< 50	500	800		1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	9.5
WAC Sample Weight	2341

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Project: T2025 Obives Riverside Quarter						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-09806 Chemtest Sample ID: 1950714 Sample Ref: Sample ID: Sample Location: TP304 Top Depth(m): 0.5 Bottom Depth(m): Sampling Date: 14-Mar-2025						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	1.3	3	5	6
Loss On Ignition	2610		M	%	2.6	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	22	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.8	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.028	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0014	0.014	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0021	0.021	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0018	0.018	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0016	0.016	0.5	10	50
Antimony	1455		U	0.0007	0.0069	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.005	0.046	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.14	1.4	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	45	450	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	4.0	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	10
WAC Sample Weight	2648

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Project: T202500000000 Riverside Quarter						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-09806						Limits		
Chemtest Sample ID: 1950715						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample Ref:								
Sample ID:								
Sample Location: TP304								
Top Depth(m): 1.5								
Bottom Depth(m):								
Sampling Date: 14-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	1.1	3	5	6
Loss On Ignition	2610		M	%	2.0	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.024	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0007	0.0068	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0007	0.0071	0.5	10	70
Copper	1455		U	0.0016	0.016	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0018	0.018	0.5	10	30
Nickel	1455		U	0.0006	0.0063	0.4	10	40
Lead	1455		U	0.0007	0.0074	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.005	0.050	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.18	1.8	10	150	500
Sulphate	1220		U	1.6	16	1000	20000	50000
Total Dissolved Solids	1020		N	41	410	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.2	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	11
WAC Sample Weight	3001

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Project: T20020 Cleeves Riverside Quarter						Landfill Waste Acceptance Criteria Limits		
Chemtest Job No: 25-09806		Chemtest Sample ID: 1950716		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample Ref:								
Sample ID:								
Sample Location: TP305								
Top Depth(m): 0.5								
Bottom Depth(m):								
Sampling Date: 14-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	2.1	3	5	6
Loss On Ignition	2610		M	%	4.3	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.8	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.032	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0014	0.014	0.5	2	25
Barium	1455		U	0.006	0.057	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0020	0.020	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0012	0.012	0.5	10	30
Nickel	1455		U	0.0005	0.0052	0.4	10	40
Lead	1455		U	0.0006	0.0065	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.009	0.086	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.14	1.4	10	150	500
Sulphate	1220		U	2.8	28	1000	20000	50000
Total Dissolved Solids	1020		N	41	410	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.6	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	8.8
WAC Sample Weight	2732

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Project: TP3050 Obives Riverside Quarter						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-09806 Chemtest Sample ID: 1950717 Sample Ref: Sample ID: Sample Location: TP305 Top Depth(m): 1.8 Bottom Depth(m): Sampling Date: 14-Mar-2025						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	9.1	3	5	6
Loss On Ignition	2610		M	%	3.8	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.013	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0056	0.056	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0019	0.019	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0036	0.036	0.5	10	30
Nickel	1455		U	0.0011	0.011	0.4	10	40
Lead	1455		U	0.0043	0.043	0.5	10	50
Antimony	1455		U	0.0009	0.0094	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.006	0.058	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.16	1.6	10	150	500
Sulphate	1220		U	2.7	27	1000	20000	50000
Total Dissolved Solids	1020		N	46	450	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.8	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	19
WAC Sample Weight	2578

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW PL LE DW GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N–dimethyl-p-phenylenediamine.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Final Report

Report No.: 25-09076-1
Initial Date of Issue: 31-Mar-2025

Re-Issue Details:

Client Priority Geotechnical Ltd
Client Address: Unit 12
Owenacurra Business Park
Midleton
County Cork
Ireland

Contact(s): Colette Kelly
Project P25019 Cleeves

Quotation No.: Q23-32607 **Date Received:** 17-Mar-2025

Order No.: 16776 **Date Instructed:** 19-Mar-2025

No. of Samples: 2

Turnaround (Wkdays): 5 **Results Due:** 25-Mar-2025

Date Approved: 31-Mar-2025

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd	Chemtest Job No.:					25-09076	25-09076
Quotation No.: Q23-32607	Chemtest Sample ID.:					1947974	1947976
	Sample Location:					BH305	BH306
	Sample Type:					SOIL	SOIL
	Top Depth (m):					0.50	0.50
	Date Sampled:					13-Mar-2025	13-Mar-2025
Determinand	Accred.	SOP	Type	Units	LOD		
Ammonium	U	1220	10:1	mg/l	0.050	0.1	0.26
Ammonium	N	1220	10:1	mg/kg	0.10	1.1	5.2

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-09076	25-09076
Quotation No.: Q23-32607		Chemtest Sample ID.:				1947974	1947976
		Sample Location:				BH305	BH306
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.50	0.50
		Date Sampled:				13-Mar-2025	13-Mar-2025
		Asbestos Lab:				DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
ACM Type		N	2192		N/A	Fibres/Clumps	Fibres/Clumps
Asbestos Identification		U	2192		N/A	Chrysotile	Chrysotile
Asbestos by Gravimetry		U	2192	%	0.001	<0.001	<0.001
Asbestos By Fibre Counting		U	2192	%	0.001	-	-
Total Asbestos		U	2192	%	0.001	<0.001	<0.001
Moisture		N	2030	%	0.020	14	10
pH at 20C		U	2010		4.0	8.6	8.3
Boron (Hot Water Soluble)		U	2120	mg/kg	0.40	< 0.40	0.67
Sulphur (Elemental)		U	2180	mg/kg	1.0	17	< 1.0
Cyanide (Total)		U	2300	mg/kg	0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	8	21
Sulphate (Total)		U	2430	%	0.010	0.07	0.079
Arsenic		U	2455	mg/kg	0.5	4.5	20
Barium		U	2455	mg/kg	0.5	39	180
Cadmium		U	2455	mg/kg	0.10	< 0.10	0.49
Chromium		U	2455	mg/kg	0.5	11	30
Molybdenum		U	2455	mg/kg	0.5	< 0.5	1.7
Antimony		N	2455	mg/kg	2.0	< 2.0	3.2
Copper		U	2455	mg/kg	0.50	16	130
Mercury		U	2455	mg/kg	0.05	0.1	0.24
Nickel		U	2455	mg/kg	0.50	11	39
Lead		U	2455	mg/kg	0.50	26	300
Selenium		U	2455	mg/kg	0.25	< 0.25	0.86
Zinc		U	2455	mg/kg	0.50	33	160
Chromium (Trivalent)		N	2490	mg/kg	1.0	11	30
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	U	2690	mg/kg	1.00	4.3	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	U	2690	mg/kg	2.00	5	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	3.00	37	< 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	13	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	U	2690	mg/kg	5.00	48	< 5.0
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd				Chemtest Job No.:		25-09076	25-09076
Quotation No.: Q23-32607				Chemtest Sample ID.:		1947974	1947976
				Sample Location:		BH305	BH306
				Sample Type:		SOIL	SOIL
				Top Depth (m):		0.50	0.50
				Date Sampled:		13-Mar-2025	13-Mar-2025
				Asbestos Lab:		DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	15	< 2.0
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	45	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	13	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	60	< 5.0
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	110	< 10
Total Organic Carbon		U	2625	%	0.20	2.2	2.3
Mineral Oil EPH		N	2670	mg/kg	10	61	< 10
Benzene		U	2760	µg/kg	1.0	< 1.0	< 1.0
Toluene		U	2760	µg/kg	1.0	< 1.0	< 1.0
Ethylbenzene		U	2760	µg/kg	1.0	< 1.0	< 1.0
m & p-Xylene		U	2760	µg/kg	1.0	< 1.0	< 1.0
o-Xylene		U	2760	µg/kg	1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether		U	2760	µg/kg	1.0	< 1.0	< 1.0
Naphthalene		U	2800	mg/kg	0.10	0.53	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	0.19	< 0.10
Acenaphthene		U	2800	mg/kg	0.10	0.18	< 0.10
Fluorene		U	2800	mg/kg	0.10	0.36	< 0.10
Phenanthrene		U	2800	mg/kg	0.10	1.5	< 0.10
Anthracene		U	2800	mg/kg	0.10	0.34	< 0.10
Fluoranthene		U	2800	mg/kg	0.10	1.3	0.12
Pyrene		U	2800	mg/kg	0.10	1.2	0.11
Benzo[a]anthracene		U	2800	mg/kg	0.10	0.64	< 0.10
Chrysene		U	2800	mg/kg	0.10	0.67	< 0.10
Benzo[b]fluoranthene		U	2800	mg/kg	0.10	0.64	< 0.10
Benzo[k]fluoranthene		U	2800	mg/kg	0.10	0.23	< 0.10
Benzo[a]pyrene		U	2800	mg/kg	0.10	0.5	< 0.10
Indeno(1,2,3-c,d)Pyrene		U	2800	mg/kg	0.10	0.32	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		U	2800	mg/kg	0.10	0.31	< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10
PCB 28		U	2815	mg/kg	0.010	< 0.010	< 0.010
PCB 52		U	2815	mg/kg	0.010	< 0.010	< 0.010
PCB 101		U	2815	mg/kg	0.010	< 0.010	< 0.010

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-09076	25-09076
Quotation No.: Q23-32607		Chemtest Sample ID.:				1947974	1947976
		Sample Location:				BH305	BH306
		Sample Type:				SOIL	SOIL
		Top Depth (m):				0.50	0.50
		Date Sampled:				13-Mar-2025	13-Mar-2025
		Asbestos Lab:				DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
PCB 118		U	2815	mg/kg	0.010	< 0.010	< 0.010
PCB 153		U	2815	mg/kg	0.010	< 0.010	< 0.010
PCB 138		U	2815	mg/kg	0.010	< 0.010	< 0.010
PCB 180		U	2815	mg/kg	0.010	< 0.010	< 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05	< 0.05
Total Phenols		U	2920	mg/kg	0.10	< 0.10	< 0.10

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-09076						Landfill Waste Acceptance Criteria						
Chemtest Sample ID: 1947974						Inert Waste Landfill	Limits					
Sample Ref:							Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill				
Sample ID:												
Sample Location: BH305												
Top Depth(m): 0.50												
Bottom Depth(m):												
Sampling Date: 13-Mar-2025						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill				
Determinand	SOP	HWOL Code	Accred.	Units								
Total Organic Carbon	2625		U	%					2.2	3	5	6
Loss On Ignition	2610		U	%					4.5	--	--	10
Total BTEX	2760		U	mg/kg					< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		U	mg/kg					< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	U	mg/kg					< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg					8.9	100	--	--
pH at 20C	2010		U						8.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg					0.028	--	To evaluate	To evaluate
Eluate Analysis							Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg					
				10:1 Eluate mg/l	10:1 Eluate mg/kg							
Arsenic	1455		U	0.001	0.01	0.5	2	25				
Barium	1455		U	0.005	0.051	20	100	300				
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5				
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70				
Copper	1455		U	0.0026	0.026	2	50	100				
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2				
Molybdenum	1455		U	0.0003	0.0035	0.5	10	30				
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40				
Lead	1455		U	0.001	0.01	0.5	10	50				
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5				
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7				
Zinc	1455		U	0.005	0.047	4	50	200				
Chloride	1220		U	< 1.0	< 10	800	15000	25000				
Fluoride	1220		U	0.11	1.1	10	150	500				
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000				
Total Dissolved Solids	1020		N	40	400	4000	60000	100000				
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-				
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000				

Solid Information	
Dry mass of test portion/kg	0.09
Moisture (%)	3.6
WAC Sample Weight	[E] 1262

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-09076						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1947976						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: BH306								
Top Depth(m): 0.50								
Bottom Depth(m):								
Sampling Date: 13-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		U	%	2.3	3	5	6
Loss On Ignition	2610		U	%	2.9	--	--	10
Total BTEX	2760		U	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		U	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	U	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		U		8.3	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.025	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0006	0.0055	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0013	0.013	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0003	0.0026	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0006	0.0065	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.006	0.062	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.092	< 1.0	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	24	240	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.6	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.09
Moisture (%)	1.1
WAC Sample Weight	[E] 1262

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1947974			BH305	13-Mar-2025		Amber Glass 250ml
1947974			BH305	13-Mar-2025		Amber Glass 60ml
1947974			BH305	13-Mar-2025		Plastic Tub 1000g
1947976			BH306	13-Mar-2025		Amber Glass 250ml
1947976			BH306	13-Mar-2025		Amber Glass 60ml
1947976			BH306	13-Mar-2025		Plastic Tub 1000g

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW PL LE DW GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35–C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7 Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL

DURHAM Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 25-09074-1

Initial Date of Issue: 25-Mar-2025

Re-Issue Details:

Client Priority Geotechnical Ltd

Client Address: Unit 12
Owenacurra Business Park
Midleton
County Cork
Ireland

Contact(s): Colette Kelly

Project P25019 Cleeves

Quotation No.: Q23-32607

Date Received: 17-Mar-2025

Order No.: 16776

Date Instructed: 17-Mar-2025

No. of Samples: 3

Turnaround (Wkdays): 5

Results Due: 21-Mar-2025

Date Approved: 25-Mar-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd	Chemtest Job No.:					25-09074	25-09074	25-09074
Quotation No.: Q23-32607	Chemtest Sample ID.:					1947969	1947970	1947971
	Sample Location:					BH307	BH308	BH308
	Sample Type:					SOIL	SOIL	SOIL
	Top Depth (m):					0.50	0.50	1.50
	Date Sampled:					12-Mar-2025	12-Mar-2025	12-Mar-2025
Determinand	Accred.	SOP	Type	Units	LOD			
Ammonium	U	1220	10:1	mg/l	0.050	0.092	0.05	< 0.050
Ammonium	N	1220	10:1	mg/kg	0.10	0.96	0.65	1

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-09074	25-09074	25-09074
Quotation No.: Q23-32607		Chemtest Sample ID.:				1947969	1947970	1947971
		Sample Location:				BH307	BH308	BH308
		Sample Type:				SOIL	SOIL	SOIL
		Top Depth (m):				0.50	0.50	1.50
		Date Sampled:				12-Mar-2025	12-Mar-2025	12-Mar-2025
		Asbestos Lab:				DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD			
ACM Type		N	2192		N/A	-	Fibres/Clumps	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	Chrysotile	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001		<0.001	
Asbestos By Fibre Counting		U	2192	%	0.001		-	
Total Asbestos		U	2192	%	0.001		<0.001	
Moisture		N	2030	%	0.020	18	9.4	9.8
Soil Colour		N	2040		N/A	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	Stones and Roots	Stones
Soil Texture		N	2040		N/A	Clay	Clay	Clay
pH at 20C		M	2010		4.0	8.1	8.3	9.8
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.88	< 0.40	< 0.40
Sulphur (Elemental)		M	2180	mg/kg	1.0	2	2.4	< 1.0
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	11	11	8.5
Sulphate (Total)		U	2430	%	0.010	0.12	0.079	0.11
Arsenic		M	2455	mg/kg	0.5	19	9.9	8.7
Barium		M	2455	mg/kg	0.5	230	95	70
Cadmium		M	2455	mg/kg	0.10	0.87	0.51	0.4
Chromium		M	2455	mg/kg	0.5	37	24	18
Molybdenum		M	2455	mg/kg	0.5	2.1	1.2	0.9
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	59	24	19
Mercury		M	2455	mg/kg	0.05	0.37	0.12	0.08
Nickel		M	2455	mg/kg	0.50	40	30	23
Lead		M	2455	mg/kg	0.50	580	65	53
Selenium		M	2455	mg/kg	0.25	1.3	0.53	0.39
Zinc		M	2455	mg/kg	0.50	160	83	72
Chromium (Trivalent)		N	2490	mg/kg	1.0	37	24	18
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL #1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-09074	25-09074	25-09074
Quotation No.: Q23-32607		Chemtest Sample ID.:				1947969	1947970	1947971
		Sample Location:				BH307	BH308	BH308
		Sample Type:				SOIL	SOIL	SOIL
		Top Depth (m):				0.50	0.50	1.50
		Date Sampled:				12-Mar-2025	12-Mar-2025	12-Mar-2025
		Asbestos Lab:				DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD			
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	6.4	< 3.0	< 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	7.1	< 5.0	< 5.0
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	6.2	4.9	4.7
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	10	< 2.0	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	17	5.7	< 5.0
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	24	< 10	< 10
Total Organic Carbon		M	2625	%	0.20	2.3	3.1	0.75
Mineral Oil EPH		N	2670	mg/kg	10	< 10	< 10	< 10
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.2
Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.24
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-09074	25-09074	25-09074
Quotation No.: Q23-32607		Chemtest Sample ID.:				1947969	1947970	1947971
		Sample Location:				BH307	BH308	BH308
		Sample Type:				SOIL	SOIL	SOIL
		Top Depth (m):				0.50	0.50	1.50
		Date Sampled:				12-Mar-2025	12-Mar-2025	12-Mar-2025
		Asbestos Lab:				DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD			
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
PCB 28		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010
PCB 52		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010
PCB 101		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010
PCB 118		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010
PCB 153		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010
PCB 138		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010
PCB 180		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-09074						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1947969						Inert Waste Landfill	Limits	
Sample Ref:							Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: BH307								
Top Depth(m): 0.50								
Bottom Depth(m):								
Sampling Date: 12-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	2.3	3	5	6
Loss On Ignition	2610		M	%	5.5	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	22	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.1	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.011	--	To evaluate	To evaluate
Eluate Analysis							Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg	
				10:1 Eluate mg/l	10:1 Eluate mg/kg			
Arsenic	1455		U	0.0007	0.0065	0.5	2	25
Barium	1455		U	0.011	0.11	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0031	0.032	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0014	0.014	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0058	0.058	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	0.0007	0.0069	0.1	0.5	7
Zinc	1455		U	0.008	0.084	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.31	3.1	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	53	530	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.2	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.09
Moisture (%)	3.3
WAC Sample Weight	2177

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-09074						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1947970						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: BH308								
Top Depth(m): 0.50								
Bottom Depth(m):								
Sampling Date: 12-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	3.1	3	5	6
Loss On Ignition	2610		M	%	0.82	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	11	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.3	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.024	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0025	0.025	0.5	2	25
Barium	1455		U	0.006	0.057	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0013	0.013	0.5	10	70
Copper	1455		U	0.0028	0.028	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0013	0.013	0.5	10	30
Nickel	1455		U	0.0013	0.014	0.4	10	40
Lead	1455		U	0.0046	0.046	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	0.0008	0.0082	0.1	0.5	7
Zinc	1455		U	0.013	0.13	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.18	1.8	10	150	500
Sulphate	1220		U	2.3	23	1000	20000	50000
Total Dissolved Solids	1020		N	39	390	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.09
Moisture (%)	15
WAC Sample Weight	2892

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves

Chemtest Job No: 25-09074						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1947971						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: BH308								
Top Depth(m): 1.50								
Bottom Depth(m):								
Sampling Date: 12-Mar-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.75	3	5	6
Loss On Ignition	2610		M	%	1.1	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	37	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		9.8	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.051	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0041	0.041	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0029	0.029	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.003	0.03	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	0.0007	0.0073	0.1	0.5	7
Zinc	1455		U	< 0.003	< 0.025	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.15	1.5	10	150	500
Sulphate	1220		U	7.9	79	1000	20000	50000
Total Dissolved Solids	1020		N	56	560	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.09
Moisture (%)	8.6
WAC Sample Weight	3518

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW PL LE DW GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7 Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL

DURHAM Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 25-07410-1

Initial Date of Issue: 25-Mar-2025

Re-Issue Details:

Client Priority Geotechnical Ltd

Client Address: Unit 12
Owenacurra Business Park
Midleton
County Cork
Ireland

Contact(s): Colette Kelly

Project P25019 Cleeves Riverside Quarter

Quotation No.: Q23-32607

Date Received: 04-Mar-2025

Order No.:

Date Instructed: 04-Mar-2025

No. of Samples: 18

Turnaround (Wkdays): 15

Results Due: 24-Mar-2025

Date Approved: 24-Mar-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: P25019 Cleeves Riverside Quarter

Client: Priority Geotechnical Ltd	Chemtest Job No.:						25-07410	25-07410	25-07410	25-07410	25-07410	25-07410	25-07410
Quotation No.: Q23-32607	Chemtest Sample ID.:						1941968	1941969	1941970	1941972	1941973	1941974	1941978
	Sample Location:						TP306	TP306	TP307	TP308	TP311	TP309	TP313
	Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):						0.50	2.20	0.50	2.00	0.50	1.00	1.00
	Date Sampled:						27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025
Determinand	Accred.	SOP	Type	Units	LOD								
Ammonium	U	1220	10:1	mg/l	0.050	0.094	0.078	0.15	0.14	0.14	0.14	0.12	0.13
Ammonium	N	1220	10:1	mg/kg	0.10	1.1	1.3	1.6	1.9	1.5	1.6	1.2	1.4

Results - Leachate

Project: P25019 Cleeves Riverside Quarter

Client: Priority Geotechnical Ltd	Chemtest Job No.:						25-07410	25-07410	25-07410	25-07410	25-07410	25-07410	25-07410
Quotation No.: Q23-32607	Chemtest Sample ID.:						1941980	1941981	1942447	1942449	1942450	1942451	1942453
	Sample Location:						TP314	TP314	TP307	TP308	TP309	TP312	TP312
	Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):						1.00	2.00	1.00	1.00	0.50	0.50	2.00
	Date Sampled:						27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025
Determinand	Accred.	SOP	Type	Units	LOD								
Ammonium	U	1220	10:1	mg/l	0.050	0.17	0.076	0.60	0.72	0.68	0.67	0.55	0.58
Ammonium	N	1220	10:1	mg/kg	0.10	1.8	1.7	7.2	7.5	7.6	7.1	7.6	7.1

Results - Soil

Project: P25019 Cleaves Riverside Quarter

Client: Priority Geotechnical Ltd		Chemtest Job No.:		25-07410	25-07410	25-07410	25-07410	25-07410	25-07410	25-07410	25-07410	25-07410
Quotation No.: Q23-32607		Chemtest Sample ID.:		1941968	1941969	1941970	1941972	1941973	1941974	1941976		
		Sample Location:		TP306	TP306	TP307	TP308	TP311	TP309	TP311		
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):		0.50	2.20	0.50	2.00	0.50	1.00	1.00		
		Date Sampled:		27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025		
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
ACM Type		N	2192		N/A	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	15	7.6	17	9.1	20	12	13
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Loam	Loam	Loam	Loam	Clay	Sand	Clay
PFAS Top Assay Soil		SN		µg/kg	1.00							
pH at 20C		M	2010		4.0	8.0	8.5	8.1	8.3	8.3	8.2	8.2
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.59	0.56	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Sulphur (Elemental)		M	2180	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.5	< 1.0
Cyanide (Total)		M	2300	mg/kg	0.50	0.60	< 0.50	< 0.50	< 0.50	< 0.50	1.3	< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	3.2	2.9	4.8	16	2.5	18	3.5
Sulphate (Total)		U	2430	%	0.010	0.057	0.060	0.054	0.063	0.055	0.10	0.010
Arsenic		M	2455	mg/kg	0.5	15	8.8	20	9.6	21	43	9.0
Barium		M	2455	mg/kg	0.5	110	72	140	120	220	65	89
Cadmium		M	2455	mg/kg	0.10	1.2	0.64	0.72	0.57	1.2	0.42	0.38
Chromium		M	2455	mg/kg	0.5	32	17	35	17	58	46	18
Molybdenum		M	2455	mg/kg	0.5	1.5	0.7	1.6	0.8	2.2	17	0.9
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.4	< 2.0
Copper		M	2455	mg/kg	0.50	23	15	33	20	59	130	20
Mercury		M	2455	mg/kg	0.05	0.18	0.11	0.18	0.35	0.21	0.11	0.07
Nickel		M	2455	mg/kg	0.50	40	26	40	25	92	160	27
Lead		M	2455	mg/kg	0.50	38	19	120	120	120	220	26
Selenium		M	2455	mg/kg	0.25	1.4	0.60	1.3	0.51	1.8	0.44	0.70
Zinc		M	2455	mg/kg	0.50	59	37	91	54	110	77	34
Chromium (Trivalent)		N	2490	mg/kg	1.0	32	17	35	17	58	46	18
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	< 3.0	3.6	< 3.0	6.6	< 3.0	< 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0	< 5.0	5.4	< 5.0	6.6	< 5.0	< 5.0

Results - Soil

Project: P25019 Cleeves Riverside Quarter

Client: Priority Geotechnical Ltd		Chemtest Job No.:	25-07410	25-07410	25-07410	25-07410	25-07410	25-07410	25-07410	25-07410
Quotation No.: Q23-32607		Chemtest Sample ID.:	1941968	1941969	1941970	1941972	1941973	1941974	1941976	
		Sample Location:	TP306	TP306	TP307	TP308	TP311	TP309	TP311	
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):	0.50	2.20	0.50	2.00	0.50	1.00	1.00	
		Date Sampled:	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	6.4	5.2	5.7	4.5	6.1
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	4.4	2.0	4.6	2.3	11
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	2.6	2.2	3.2	1.9	2.3
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	11	7.2	10	6.8	17
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	13	< 10	16	< 10	23
Total Organic Carbon		M	2625	%	0.20	0.90	0.83	0.81	0.75	1.0
Mineral Oil EPH		N	2670	mg/kg	10	< 10	< 10	< 10	< 10	< 10
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
PCB 28		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 52		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010

Results - Soil

Project: P25019 Cleeves Riverside Quarter

Client: Priority Geotechnical Ltd		Chemtest Job No.:						25-07410	25-07410	25-07410	25-07410	25-07410	25-07410
Quotation No.: Q23-32607		Chemtest Sample ID.:						1941968	1941969	1941970	1941972	1941973	1941976
		Sample Location:						TP306	TP306	TP307	TP308	TP311	TP309
		Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):						0.50	2.20	0.50	2.00	0.50	1.00
		Date Sampled:						27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025
		Asbestos Lab:						DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
PCB 101		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 118		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 153		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 138		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 180		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
PFAS Suite Soils		SN		µg/kg	0.0								

Results - Soil

Project: P25019 Cleeves Riverside Quarter

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-07410	25-07410	25-07410	25-07410	25-07410	25-07410	25-07410
Quotation No.: Q23-32607		Chemtest Sample ID.:				1941978	1941980	1941981	1941982	1941983	1942447	1942449
		Sample Location:				TP313	TP314	TP314	TP311	TP313	TP307	TP308
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				1.00	1.00	2.00	0.50	0.50	1.00	1.00
		Date Sampled:				27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025
		Asbestos Lab:				DURHAM	DURHAM	DURHAM			DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
ACM Type		N	2192		N/A	-	-	-			-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected			No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	10	10	7.8			14	21
Soil Colour		N	2040		N/A	Brown	Brown	Brown				
Other Material		N	2040		N/A	Stones	Stones	Stones				
Soil Texture		N	2040		N/A	Clay	Loam	Loam				
PFAS Top Assay Soil		SN		µg/kg	1.00				See Attached	See Attached		
pH at 20C		M	2010		4.0	8.1	8.3	8.5			7.8	7.8
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.51	< 0.40	< 0.40			0.53	< 0.40
Sulphur (Elemental)		M	2180	mg/kg	1.0	< 1.0	< 1.0	1.5			< 1.0	< 1.0
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	2.6	4.0	21			4.1	4.6
Sulphate (Total)		U	2430	%	0.010	0.054	0.046	0.060			0.098	0.038
Arsenic		M	2455	mg/kg	0.5	11	5.7	7.3			15	24
Barium		M	2455	mg/kg	0.5	110	45	59			180	280
Cadmium		M	2455	mg/kg	0.10	0.73	0.29	0.47			0.72	0.68
Chromium		M	2455	mg/kg	0.5	23	11	18			32	47
Molybdenum		M	2455	mg/kg	0.5	1.1	0.8	0.8			1.2	0.9
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0	< 2.0			< 2.0	2.1
Copper		M	2455	mg/kg	0.50	25	19	15			36	53
Mercury		M	2455	mg/kg	0.05	0.12	0.45	0.11			0.19	0.20
Nickel		M	2455	mg/kg	0.50	33	16	22			41	69
Lead		M	2455	mg/kg	0.50	37	34	22			140	190
Selenium		M	2455	mg/kg	0.25	0.75	0.30	0.46			0.64	1.1
Zinc		M	2455	mg/kg	0.50	72	37	38			95	120
Chromium (Trivalent)		N	2490	mg/kg	1.0	23	11	18			32	47
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25			< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0			< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0			< 2.0	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	< 3.0	< 3.0			8.3	12
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10			< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0	< 5.0	< 5.0			8.8	14

Results - Soil

Project: P25019 Cleeves Riverside Quarter

Client: Priority Geotechnical Ltd		Chemtest Job No.:	25-07410	25-07410	25-07410	25-07410	25-07410	25-07410	25-07410
Quotation No.: Q23-32607		Chemtest Sample ID.:	1941978	1941980	1941981	1941982	1941983	1942447	1942449
		Sample Location:	TP313	TP314	TP314	TP311	TP313	TP307	TP308
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	1.00	1.00	2.00	0.50	0.50	1.00	1.00
		Date Sampled:	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025
		Asbestos Lab:	DURHAM	DURHAM	DURHAM			DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	5.4	4.4	5.1	5.4
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	2.6	2.2	< 2.0	7.2
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	2.5	2.1	1.6	5.8
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	7.9	6.6	7.0	13
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	< 10	< 10	< 10	21
Total Organic Carbon		M	2625	%	0.20	0.38	1.1	1.6	1.1
Mineral Oil EPH		N	2670	mg/kg	10	< 10	< 10	< 10	< 10
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
PCB 28		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 52		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010

Results - Soil

Project: P25019 Cleeves Riverside Quarter

Client: Priority Geotechnical Ltd		Chemtest Job No.:		25-07410	25-07410	25-07410	25-07410	25-07410	25-07410	25-07410	25-07410	25-07410
Quotation No.: Q23-32607		Chemtest Sample ID.:		1941978	1941980	1941981	1941982	1941983	1942447	1942449		
		Sample Location:		TP313	TP314	TP314	TP311	TP313	TP307	TP308		
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):		1.00	1.00	2.00	0.50	0.50	1.00	1.00		
		Date Sampled:		27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025		
		Asbestos Lab:		DURHAM	DURHAM	DURHAM			DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
PCB 101		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010			< 0.010	< 0.010
PCB 118		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010			< 0.010	< 0.010
PCB 153		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010			< 0.010	< 0.010
PCB 138		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010			< 0.010	< 0.010
PCB 180		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010			< 0.010	< 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05	< 0.05	< 0.05			< 0.05	< 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10			< 0.10	< 0.10
PFAS Suite Soils		SN		µg/kg	0.0				See Attached	See Attached		

Results - Soil

Project: P25019 Cleeves Riverside Quarter

Client: Priority Geotechnical Ltd		Chemtest Job No.:		25-07410	25-07410	25-07410	25-07410
Quotation No.: Q23-32607		Chemtest Sample ID.:		1942450	1942451	1942453	1942454
		Sample Location:		TP309	TP312	TP312	TP313
		Sample Type:		SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.50	0.50	2.00	0.50
		Date Sampled:		27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
ACM Type		N	2192		N/A	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	13	18
Soil Colour		N	2040		N/A		
Other Material		N	2040		N/A		
Soil Texture		N	2040		N/A		
PFAS Top Assay Soil		SN		µg/kg	1.00		
pH at 20C		M	2010		4.0	8.0	7.6
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.59	1.1
Sulphur (Elemental)		M	2180	mg/kg	1.0	< 1.0	< 1.0
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	4.5	9.6
Sulphate (Total)		U	2430	%	0.010	0.074	0.096
Arsenic		M	2455	mg/kg	0.5	10	12
Barium		M	2455	mg/kg	0.5	74	120
Cadmium		M	2455	mg/kg	0.10	0.42	0.44
Chromium		M	2455	mg/kg	0.5	19	19
Molybdenum		M	2455	mg/kg	0.5	1.6	1.1
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	24	26
Mercury		M	2455	mg/kg	0.05	0.11	0.37
Nickel		M	2455	mg/kg	0.50	26	21
Lead		M	2455	mg/kg	0.50	59	95
Selenium		M	2455	mg/kg	0.25	0.26	0.54
Zinc		M	2455	mg/kg	0.50	110	59
Chromium (Trivalent)		N	2490	mg/kg	1.0	19	19
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	3.5
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	2.4
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	8.9	13
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	9.3	20

Results - Soil

Project: P25019 Cleeves Riverside Quarter

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-07410	25-07410	25-07410	25-07410
Quotation No.: Q23-32607		Chemtest Sample ID.:				1942450	1942451	1942453	1942454
		Sample Location:				TP309	TP312	TP312	TP313
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.50	0.50	2.00	0.50
		Date Sampled:				27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	5.5
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	9.8	7.7	3.9	23
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	14	14	4.0	35
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	5.3	5.3	4.5	3.5
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	24	22	8.0	63
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	33	42	22	77
Total Organic Carbon		M	2625	%	0.20	1.3	4.1	0.71	0.22
Mineral Oil EPH		N	2670	mg/kg	10	< 10	20	14	14
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	0.46	< 0.10	< 0.10	0.20
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.24	< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.28	< 0.10	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	0.22	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
PCB 28		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 52		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010

Results - Soil

Project: P25019 Cleeves Riverside Quarter

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-07410	25-07410	25-07410	25-07410
Quotation No.: Q23-32607		Chemtest Sample ID.:				1942450	1942451	1942453	1942454
		Sample Location:				TP309	TP312	TP312	TP313
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.50	0.50	2.00	0.50
		Date Sampled:				27-Feb-2025	27-Feb-2025	27-Feb-2025	27-Feb-2025
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
PCB 101		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 118		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 153		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 138		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 180		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
PFAS Suite Soils		SN		µg/kg	0.0				

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Project: T 20220 Oberees Riverside Quarter						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-07410 Chemtest Sample ID: 1941968 Sample Ref: Sample ID: Sample Location: TP306 Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 27-Feb-2025						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.90	3	5	6
Loss On Ignition	2610		M	%	3.5	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.010	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0011	0.011	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0022	0.022	0.5	10	70
Copper	1455		U	0.0016	0.016	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0021	0.021	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0013	0.013	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.007	0.070	4	50	200
Chloride	1220		U	8.0	80	800	15000	25000
Fluoride	1220		U	0.33	3.3	10	150	500
Sulphate	1220		U	7.4	74	1000	20000	50000
Total Dissolved Solids	1020		N	64	640	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.9	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	10
WAC Sample Weight	3218

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Project: T20220 Obereves Riverside Quarter						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-07410 Chemtest Sample ID: 1941969 Sample Ref: Sample ID: Sample Location: TP306 Top Depth(m): 2.20 Bottom Depth(m): Sampling Date: 27-Feb-2025						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.83	3	5	6
Loss On Ignition	2610		M	%	0.71	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.5	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.047	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0009	0.0094	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0010	0.011	0.5	10	70
Copper	1455		U	0.0016	0.016	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0005	0.0050	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0008	0.0082	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.008	0.080	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.16	1.6	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	34	340	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	8.5
WAC Sample Weight	[E] 1888

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleaves Riverside Quarter

Project: T20220 Groves Riverside Quarter						Landfill Waste Acceptance Criteria Limits		
Chemtest Job No: 25-07410		Chemtest Sample ID: 1941970		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample Ref:								
Sample ID:								
Sample Location: TP307								
Top Depth(m): 0.50								
Bottom Depth(m):								
Sampling Date: 27-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.81	3	5	6
Loss On Ignition	2610		M	%	3.7	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.1	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.012	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0005	0.0047	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0010	0.010	0.5	10	70
Copper	1455		U	0.0013	0.013	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0003	0.0027	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0007	0.0071	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.003	0.033	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.19	1.9	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	44	440	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.4	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	11
WAC Sample Weight	3392

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Project: T20220 Obives Riverside Quarter						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-07410 Chemtest Sample ID: 1941972 Sample Ref: Sample ID: Sample Location: TP308 Top Depth(m): 2.00 Bottom Depth(m): Sampling Date: 27-Feb-2025						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.75	3	5	6
Loss On Ignition	2610		M	%	1.4	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.3	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.044	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0005	0.0047	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0022	0.022	0.5	10	70
Copper	1455		U	0.0018	0.018	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0007	0.0074	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0011	0.011	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.009	0.092	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.14	1.4	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	32	320	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.7	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	11
WAC Sample Weight	3938

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Project: T20220 Groves Riverside Quarter						Landfill Waste Acceptance Criteria Limits		
Chemtest Job No: 25-07410		Chemtest Sample ID: 1941973		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample Ref:								
Sample ID:								
Sample Location: TP311								
Top Depth(m): 0.50								
Bottom Depth(m):								
Sampling Date: 27-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	1.0	3	5	6
Loss On Ignition	2610		M	%	5.6	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.3	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.021	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0006	0.0063	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0015	0.015	0.5	10	70
Copper	1455		U	0.0014	0.014	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	< 0.0002	< 0.0020	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0012	0.012	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.004	0.040	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.15	1.5	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	22	220	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	12
WAC Sample Weight	2903

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Project: T20220 Oberees Riverside Quarter						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-07410 Chemtest Sample ID: 1941974 Sample Ref: Sample ID: Sample Location: TP309 Top Depth(m): 1.00 Bottom Depth(m): Sampling Date: 27-Feb-2025						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	1.4	3	5	6
Loss On Ignition	2610		M	%	2.7	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.2	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.028	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0040	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0013	0.013	0.5	10	70
Copper	1455		U	0.0021	0.021	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0010	0.0097	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0009	0.0094	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.013	0.13	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.13	1.3	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	41	410	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.6	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	16
WAC Sample Weight	3673

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Project: T 2025 Obeyesekere Riverside Quarter						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-07410 Chemtest Sample ID: 1941976 Sample Ref: Sample ID: Sample Location: TP311 Top Depth(m): 1.00 Bottom Depth(m): Sampling Date: 27-Feb-2025						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	< 0.20	3	5	6
Loss On Ignition	2610		M	%	2.5	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.2	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0050	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0026	0.026	0.5	2	25
Barium	1455		U	0.005	0.055	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0041	0.041	0.5	10	70
Copper	1455		U	0.0044	0.044	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0003	0.0028	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0031	0.031	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	0.0005	0.0054	0.1	0.5	7
Zinc	1455		U	0.015	0.16	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.26	2.6	10	150	500
Sulphate	1220		U	1.6	16	1000	20000	50000
Total Dissolved Solids	1020		N	25	250	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	14
WAC Sample Weight	3153

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Project: T20220 Obereves Riverside Quarter						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-07410 Chemtest Sample ID: 1941978 Sample Ref: Sample ID: Sample Location: TP313 Top Depth(m): 1.00 Bottom Depth(m): Sampling Date: 27-Feb-2025						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.38	3	5	6
Loss On Ignition	2610		M	%	1.5	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.1	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.044	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0005	0.0052	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0013	0.013	0.5	10	70
Copper	1455		U	0.0014	0.014	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0013	0.013	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0006	0.0063	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.005	0.051	4	50	200
Chloride	1220		U	1.0	10	800	15000	25000
Fluoride	1220		U	0.21	2.1	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	47	470	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.7	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	11
WAC Sample Weight	3354

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Project: T20220 Oberees Riverside Quarter						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-07410 Chemtest Sample ID: 1941980 Sample Ref: Sample ID: Sample Location: TP314 Top Depth(m): 1.00 Bottom Depth(m): Sampling Date: 27-Feb-2025						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	1.1	3	5	6
Loss On Ignition	2610		M	%	2.1	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.3	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.021	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0005	0.0048	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0011	0.011	0.5	10	70
Copper	1455		U	0.0038	0.038	2	50	100
Mercury	1455		U	0.00024	0.0024	0.01	0.2	2
Molybdenum	1455		U	0.0020	0.020	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	0.0011	0.011	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.004	0.040	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.18	1.8	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	46	460	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	4.1	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	17
WAC Sample Weight	3450

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Project: T20220 Obives Riverside Quarter						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-07410 Chemtest Sample ID: 1941981 Sample Ref: Sample ID: Sample Location: TP314 Top Depth(m): 2.00 Bottom Depth(m): Sampling Date: 27-Feb-2025						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	1.6	3	5	6
Loss On Ignition	2610		M	%	0.98	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.5	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.075	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0003	0.0030	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0011	0.011	0.5	10	70
Copper	1455		U	0.0010	0.0097	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0005	0.0047	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	< 0.003	< 0.025	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.10	1.0	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	27	270	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	10
WAC Sample Weight	3985

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Project: T20220 Obereves Riverside Quarter						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-07410 Chemtest Sample ID: 1942447 Sample Ref: Sample ID: Sample Location: TP307 Top Depth(m): 1.00 Bottom Depth(m): Sampling Date: 27-Feb-2025						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	1.1	3	5	6
Loss On Ignition	2610		M	%	3.5	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.8	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.026	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0009	0.0087	0.5	2	25
Barium	1455		U	0.005	0.051	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0023	0.023	0.5	10	70
Copper	1455		U	0.0027	0.027	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0018	0.018	0.5	10	30
Nickel	1455		U	0.0026	0.026	0.4	10	40
Lead	1455		U	0.0015	0.015	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.008	0.081	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.31	3.1	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	53	530	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.7	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	5.9
WAC Sample Weight	3198

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Project: T20220 Obereves Riverside Quarter						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-07410 Chemtest Sample ID: 1942449 Sample Ref: Sample ID: Sample Location: TP308 Top Depth(m): 1.00 Bottom Depth(m): Sampling Date: 27-Feb-2025						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.42	3	5	6
Loss On Ignition	2610		M	%	4.4	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	14	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.8	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.012	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	< 0.0002	< 0.0020	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0019	0.019	0.5	10	70
Copper	1455		U	0.0009	0.0089	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0002	0.0020	0.5	10	30
Nickel	1455		U	0.0013	0.013	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.008	0.080	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.22	2.2	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	40	400	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.7	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	6.6
WAC Sample Weight	3160

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Project: T20220 Obereves Riverside Quarter						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-07410 Chemtest Sample ID: 1942450 Sample Ref: Sample ID: Sample Location: TP309 Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 27-Feb-2025						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	1.3	3	5	6
Loss On Ignition	2610		M	%	2.1	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	1.2	100	--	--
pH at 20C	2010		M		8.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.021	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0012	0.012	0.5	2	25
Barium	1455		U	0.007	0.073	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0030	0.030	0.5	10	70
Copper	1455		U	0.0029	0.029	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0013	0.013	0.5	10	30
Nickel	1455		U	0.0024	0.024	0.4	10	40
Lead	1455		U	0.0022	0.022	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.010	0.10	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.21	2.1	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	61	610	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	4.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	13
WAC Sample Weight	3228

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Project: T 20220 Oberees Riverside Quarter						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-07410 Chemtest Sample ID: 1942451 Sample Ref: Sample ID: Sample Location: TP312 Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 27-Feb-2025						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	4.1	3	5	6
Loss On Ignition	2610		M	%	6.8	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	20	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0039	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0024	0.024	0.5	10	70
Copper	1455		U	0.0015	0.015	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0021	0.021	0.5	10	30
Nickel	1455		U	0.0013	0.014	0.4	10	40
Lead	1455		U	0.0009	0.0086	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.004	0.035	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.44	4.4	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	56	560	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.9	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	9.4
WAC Sample Weight	3233

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Project: T 2025 Obives Riverside Quarter						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-07410 Chemtest Sample ID: 1942453 Sample Ref: Sample ID: Sample Location: TP312 Top Depth(m): 2.00 Bottom Depth(m): Sampling Date: 27-Feb-2025						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.71	3	5	6
Loss On Ignition	2610		M	%	1.8	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	14	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.049	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0006	0.0062	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0022	0.022	0.5	10	70
Copper	1455		U	0.0019	0.019	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0011	0.011	0.5	10	30
Nickel	1455		U	0.0015	0.015	0.4	10	40
Lead	1455		U	0.0006	0.0057	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.011	0.11	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.17	1.7	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	42	420	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.1	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	5.2
WAC Sample Weight	2103

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: P25019 Cleeves Riverside Quarter

Project: T20220 Obereves Riverside Quarter						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-07410 Chemtest Sample ID: 1942454 Sample Ref: Sample ID: Sample Location: TP313 Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 27-Feb-2025						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.22	3	5	6
Loss On Ignition	2610		M	%	2.3	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	14	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.9	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.027	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0010	0.0095	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0026	0.026	0.5	10	70
Copper	1455		U	0.0025	0.025	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0023	0.023	0.5	10	30
Nickel	1455		U	0.0018	0.018	0.4	10	40
Lead	1455		U	0.0009	0.0090	0.5	10	50
Antimony	1455		U	0.0007	0.0066	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.009	0.091	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.28	2.8	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	54	540	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.1	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	3.3
WAC Sample Weight	2308

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1941969			TP306	#####	E	Amber Glass 250ml
1941969			TP306	#####	E	Amber Glass 60ml
1941969			TP306	#####	E	Plastic Tub 1000g

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW PL LE DW GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N–dimethyl-p-phenylenediamine.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

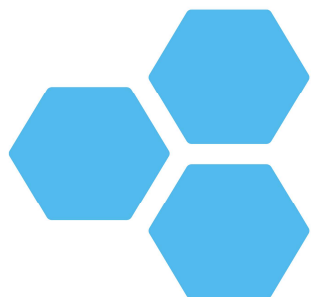
HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



**VERITAS
LABORATORY
SERVICES**

TEST REPORT

Report Number: 2025-821

Customer Name : Eurofins Chemtest Ltd

Customer Address : 11 Depot Road
Newmarket, Suffolk
CB8 0AL

Order Number : 28698

Additional Reference: 25-11221

Issue : 0

Date of Receipt : 07/04/2025

Date of Analysis : 09/04/2025

Date of Report : 17/04/2025

Sample Type : Soil

Customer Sample Identifier : 1955697 TP317 26/03/25

Sample Condition : Conforming

Comments:

Any opinions or interpretations are outside the laboratory's scope of accreditation. The results included within the report are representative of the samples submitted for analysis and are expressed on as received basis, unless otherwise stated. This certificate shall not be reproduced, except in full, without the prior written approval of VLS.

Approved by : Karolina Pettit

Position : Director

Signature : *K. Pettit*

Results PFAS

Sample Type : Soil

Test Report Number : 2025-821

Customer Sample Identifier : 1955697 TP317 26/03/25

Sample Condition : Conforming

Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Post TOPA Conc.
3:3 FTCA	356-02-5	1	µg/kg	ND
4:2 FTSA; 4:2 FTS	757124-72-4	1	µg/kg	ND
PFecHS	335-24-0	1	µg/kg	ND
5:3 FTCA	914637-49-3	1	µg/kg	ND
6:2 FTSA; 6:2 FTS	27619-97-2	1	µg/kg	ND
7:3 FTCA	812-70-4	1	µg/kg	ND
8:2 FTSA; 8:2 FTS ^	39108-34-4	1	µg/kg	ND
6:2 Cl-PFESA; 9Cl-PF3ONS	756426-58-1	1	µg/kg	ND
10:2 FTS	108026-35-3	1	µg/kg	ND
8:2 Cl-PFESA; 11Cl-PF3OUdS	763051-92-9	1	µg/kg	ND
DONA; ADONA	919005-14-4	1	µg/kg	ND
EtFOSE	1691-99-2	1	µg/kg	ND
FBSA	30334-69-1	1	µg/kg	ND
FHxSA	41997-13-1	1	µg/kg	ND
FOSAA	2806-24-8	1	µg/kg	ND
HFPO-DA (Gen X)	13252-13-6	1	µg/kg	ND
HFPO-TA	13252-14-7	1	µg/kg	ND
EtFOSA; N-EtFOSA	4151-50-2	1	µg/kg	ND
NEtFOSAA; EtFOSAA	2991-50-6	1	µg/kg	ND
NFDHA	151772-58-6	1	µg/kg	ND
MeFOSA; N-MeFOSA	31506-32-8	1	µg/kg	ND
NMeFOSAA; MeFOSAA	2355-31-9	1	µg/kg	ND
MeFOSE	24448-09-7	1	µg/kg	ND
PFBA	375-22-4	1	µg/kg	ND
PFBS	375-73-5	1	µg/kg	ND
PFDA	335-76-2	1	µg/kg	ND
PFDaA	307-55-1	1	µg/kg	ND
PFDoS	79780-39-5	1	µg/kg	ND
PFDS	335-77-3	1	µg/kg	ND
PFEESA	113507-82-7	1	µg/kg	ND
PFHpA	375-85-9	1	µg/kg	ND
PFHpS	375-92-8	1	µg/kg	ND
PFHxA	307-24-4	1	µg/kg	ND
PFHxDA ^	67905-19-5	1	µg/kg	ND
PFHxS Linear	355-46-4	1	µg/kg	ND
PFHxS Branched	-	1	µg/kg	ND
PFHxS Total	-	1	µg/kg	ND
PFMOBA	863090-89-5	1	µg/kg	ND
PFMOPrA	377-73-1	1	µg/kg	ND

Results PFAS

Sample Type : Soil

Test Report Number : 2025-821

Customer Sample Identifier : 1955697 TP317 26/03/25

Sample Condition : Conforming

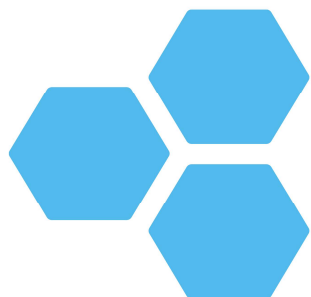
Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Post TOPA Conc.
PFNA	375-95-1	1	µg/kg	ND
PFNS	68259-12-1	1	µg/kg	ND
PFOA Linear	335-67-1	1	µg/kg	ND
PFOA Branched	-	1	µg/kg	ND
PFOA Total	-	1	µg/kg	ND
PFODA	16517-11-6	1	µg/kg	ND
PFOS Linear	1763-23-1	1	µg/kg	ND
PFOS Branched	-	1	µg/kg	ND
PFOS Total	-	1	µg/kg	ND
FOSA (PFOSA)	754-91-6	1	µg/kg	ND
PFPeA	2706-90-3	1	µg/kg	ND
PFPeS	2706-91-4	1	µg/kg	ND
PFTeA	376-06-7	1	µg/kg	ND
PFTTrDA (PFTTriA)	72629-94-8	1	µg/kg	ND
PFUdA; PFUnA	2058-94-8	1	µg/kg	ND
PFUnDS	749786-16-1	1	µg/kg	ND

ND - not detected

^ The recovery of ES standard either <70% or >130%

NB - The above does not affect the results as recoveries % within EPA1633 method range.



**VERITAS
LABORATORY
SERVICES**

TEST REPORT

Report Number: 2025-821

Customer Name : Eurofins Chemtest Ltd

Customer Address : 11 Depot Road
Newmarket, Suffolk
CB8 0AL

Order Number : 28698

Additional Reference: 25-11221

Issue : 0

Date of Receipt : 07/04/2025

Date of Analysis : 09/04/2025

Date of Report : 17/04/2025

Sample Type : Soil

Customer Sample Identifier : 1955697 TP317 26/03/25

Sample Condition : Conforming

Comments:

Any opinions or interpretations are outside the laboratory's scope of accreditation. The results included within the report are representative of the samples submitted for analysis and are expressed on as received basis, unless otherwise stated. This certificate shall not be reproduced, except in full, without the prior written approval of VLS.

Approved by : Karolina Pettit

Position : Director

Signature : *K. Pettit*



26667

Results PFAS

Sample Type : Soil

Test Report Number : 2025-821

Customer Sample Identifier : 1955697 TP317 26/03/25

Sample Condition : Conforming

Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Conc.
3:3 FTCA	356-02-5	1	µg/kg	ND
4:2 FTSA; 4:2 FTS	757124-72-4	1	µg/kg	ND
PFecHS	335-24-0	1	µg/kg	ND
5:3 FTCA	914637-49-3	1	µg/kg	ND
6:2 FTSA; 6:2 FTS	27619-97-2	1	µg/kg	ND
7:3 FTCA	812-70-4	1	µg/kg	ND
8:2 FTSA; 8:2 FTS	39108-34-4	1	µg/kg	ND
6:2 Cl-PFESA; 9Cl-PF3ONS	756426-58-1	1	µg/kg	ND
10:2 FTS	108026-35-3	1	µg/kg	ND
8:2 Cl-PFESA; 11Cl-PF3OUdS	763051-92-9	1	µg/kg	ND
DONA; ADONA	919005-14-4	1	µg/kg	ND
EtFOSE	1691-99-2	1	µg/kg	ND
FBSA	30334-69-1	1	µg/kg	ND
FHxSA	41997-13-1	1	µg/kg	ND
FOSAA	2806-24-8	1	µg/kg	ND
HFPO-DA (Gen X)	13252-13-6	1	µg/kg	ND
HFPO-TA	13252-14-7	1	µg/kg	ND
EtFOSA; N-EtFOSA	4151-50-2	1	µg/kg	ND
NEtFOSAA; EtFOSAA	2991-50-6	1	µg/kg	ND
NFDHA	151772-58-6	1	µg/kg	ND
MeFOSA; N-MeFOSA	31506-32-8	1	µg/kg	ND
NMeFOSAA; MeFOSAA	2355-31-9	1	µg/kg	ND
MeFOSE	24448-09-7	1	µg/kg	ND
PFBA	375-22-4	1	µg/kg	ND
PFBS	375-73-5	1	µg/kg	ND
PFDA	335-76-2	1	µg/kg	ND
PFDaA	307-55-1	1	µg/kg	ND
PFDaS	79780-39-5	1	µg/kg	ND
PFDS	335-77-3	1	µg/kg	ND
PFEESA	113507-82-7	1	µg/kg	ND
PFHpA	375-85-9	1	µg/kg	ND
PFHpS	375-92-8	1	µg/kg	ND
PFHxA	307-24-4	1	µg/kg	ND
PFHxDA	67905-19-5	1	µg/kg	ND
PFHxS Linear	355-46-4	1	µg/kg	ND
PFHxS Branched #	-	1	µg/kg	ND
PFHxS Total #	-	1	µg/kg	ND
PFMOBA	863090-89-5	1	µg/kg	ND
PFMOPrA	377-73-1	1	µg/kg	ND

Results PFAS

Sample Type : Soil

Test Report Number : 2025-821

Customer Sample Identifier : 1955697 TP317 26/03/25

Sample Condition : Conforming

Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Conc.
PFNA	375-95-1	1	µg/kg	ND
PFNS	68259-12-1	1	µg/kg	ND
PFOA Linear	335-67-1	1	µg/kg	ND
PFOA Branched #	-	1	µg/kg	ND
PFOA Total #	-	1	µg/kg	ND
PFODA	16517-11-6	1	µg/kg	ND
PFOS Linear	1763-23-1	1	µg/kg	ND
PFOS Branched #	-	1	µg/kg	ND
PFOS Total #	-	1	µg/kg	ND
FOSA (PFOSA)	754-91-6	1	µg/kg	ND
PFPeA	2706-90-3	1	µg/kg	ND
PFPeS	2706-91-4	1	µg/kg	ND
PFTeA	376-06-7	1	µg/kg	ND
PFTTrDA (PFTTriA)	72629-94-8	1	µg/kg	ND
PFUdA; PFUnA	2058-94-8	1	µg/kg	ND
PFUnDS	749786-16-1	1	µg/kg	ND

ND - not detected

Non Accredited



TEST REPORT

Report Number: 2025-735

Customer Name : Eurofins Chemtest Ltd

Customer Address : 11 Depot Road
Newmarket, Suffolk
CB8 0AL

Order Number : 28636

Additional Reference: 25-10391

Issue : 0

Date of Receipt : 28/03/2025

Date of Analysis : 31/03/2025

Date of Report : 10/04/2025

Sample Type : Soil

Customer Sample Identifier : 1952660 WL 12A-BH1 20-3-25

Sample Condition : Conforming

Comments:

Any opinions or interpretations are outside the laboratory's scope of accreditation. The results included within the report are representative of the samples submitted for analysis and are expressed on as received basis, unless otherwise stated. This certificate shall not be reproduced, except in full, without the prior written approval of VLS.

Approved by : Karolina Pettit

Position : Director

Signature : *K. Pettit*

Results PFAS

Sample Type : Soil

Test Report Number : 2025-735

Customer Sample Identifier : 1952660 WL 12A-BH1 20-3-25

Sample Condition : Conforming

Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Post TOPA Conc.
3:3 FTCA	356-02-5	1	µg/kg	ND
4:2 FTSA; 4:2 FTS	757124-72-4	1	µg/kg	ND
PFecHS	335-24-0	1	µg/kg	ND
5:3 FTCA	914637-49-3	1	µg/kg	ND
6:2 FTSA; 6:2 FTS	27619-97-2	1	µg/kg	ND
7:3 FTCA	812-70-4	1	µg/kg	ND
8:2 FTSA; 8:2 FTS ^	39108-34-4	1	µg/kg	ND
6:2 Cl-PFESA; 9Cl-PF3ONS	756426-58-1	1	µg/kg	ND
10:2 FTS	108026-35-3	1	µg/kg	ND
8:2 Cl-PFESA; 11Cl-PF3OUdS	763051-92-9	1	µg/kg	ND
DONA; ADONA	919005-14-4	1	µg/kg	ND
EtFOSE	1691-99-2	1	µg/kg	ND
FBSA	30334-69-1	1	µg/kg	ND
FHxSA	41997-13-1	1	µg/kg	ND
FOSAA	2806-24-8	1	µg/kg	ND
HFPO-DA (Gen X)	13252-13-6	1	µg/kg	ND
HFPO-TA	13252-14-7	1	µg/kg	ND
EtFOSA; N-EtFOSA	4151-50-2	1	µg/kg	ND
NEtFOSAA; EtFOSAA	2991-50-6	1	µg/kg	ND
NFDHA	151772-58-6	1	µg/kg	ND
MeFOSA; N-MeFOSA	31506-32-8	1	µg/kg	ND
NMeFOSAA; MeFOSAA	2355-31-9	1	µg/kg	ND
MeFOSE	24448-09-7	1	µg/kg	ND
PFBA	375-22-4	1	µg/kg	ND
PFBS	375-73-5	1	µg/kg	ND
PFDA	335-76-2	1	µg/kg	ND
PFDoA	307-55-1	1	µg/kg	ND
PFDoS	79780-39-5	1	µg/kg	ND
PFDS	335-77-3	1	µg/kg	ND
PFEESA	113507-82-7	1	µg/kg	ND
PFHpA	375-85-9	1	µg/kg	ND
PFHpS	375-92-8	1	µg/kg	ND
PFHxA	307-24-4	1	µg/kg	ND
PFHxDA	67905-19-5	1	µg/kg	ND
PFHxS Linear	355-46-4	1	µg/kg	ND
PFHxS Branched	-	1	µg/kg	ND
PFHxS Total	-	1	µg/kg	ND
PFMOBA	863090-89-5	1	µg/kg	ND
PFMOPrA	377-73-1	1	µg/kg	ND

Results PFAS

Sample Type : Soil

Test Report Number : 2025-735

Customer Sample Identifier : 1952660 WL 12A-BH1 20-3-25

Sample Condition : Conforming

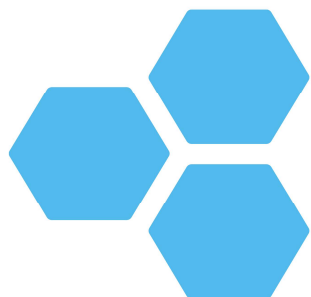
Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Post TOPA Conc.
PFNA	375-95-1	1	µg/kg	ND
PFNS	68259-12-1	1	µg/kg	ND
PFOA Linear	335-67-1	1	µg/kg	ND
PFOA Branched	-	1	µg/kg	ND
PFOA Total	-	1	µg/kg	ND
PFODA	16517-11-6	1	µg/kg	ND
PFOS Linear	1763-23-1	1	µg/kg	ND
PFOS Branched	-	1	µg/kg	ND
PFOS Total	-	1	µg/kg	ND
FOSA (PFOSA)	754-91-6	1	µg/kg	ND
PFPeA	2706-90-3	1	µg/kg	ND
PFPeS	2706-91-4	1	µg/kg	ND
PFTeA	376-06-7	1	µg/kg	ND
PFTTrDA (PFTTriA)	72629-94-8	1	µg/kg	ND
PFUdA; PFUnA	2058-94-8	1	µg/kg	ND
PFUnDS	749786-16-1	1	µg/kg	ND

ND - not detected

^ The recovery of ES standard either <70% or >130%

NB - The above does not affect the results as recoveries % within EPA1633 method range.



**VERITAS
LABORATORY
SERVICES**

TEST REPORT

Report Number: 2025-735

Customer Name : Eurofins Chemtest Ltd

Customer Address : 11 Depot Road
Newmarket, Suffolk
CB8 0AL

Order Number : 28636

Additional Reference: 25-10391

Issue : 0

Date of Receipt : 28/03/2025

Date of Analysis : 31/03/2025

Date of Report : 10/04/2025

Sample Type : Soil

Customer Sample Identifier : 1952660 WL 12A-BH1 20-3-25

Sample Condition : Conforming

Comments:

Any opinions or interpretations are outside the laboratory's scope of accreditation. The results included within the report are representative of the samples submitted for analysis and are expressed on as received basis, unless otherwise stated. This certificate shall not be reproduced, except in full, without the prior written approval of VLS.

Approved by : Karolina Pettit

Position : Director

Signature : *K. Pettit*



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Results PFAS

Sample Type : Soil

Test Report Number : 2025-735

Customer Sample Identifier : 1952660 WL 12A-BH1 20-3-25

Sample Condition : Conforming

Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Conc.
3:3 FTCA	356-02-5	1	µg/kg	ND
4:2 FTSA; 4:2 FTS	757124-72-4	1	µg/kg	ND
PFecHS	335-24-0	1	µg/kg	ND
5:3 FTCA	914637-49-3	1	µg/kg	ND
6:2 FTSA; 6:2 FTS	27619-97-2	1	µg/kg	ND
7:3 FTCA	812-70-4	1	µg/kg	ND
8:2 FTSA; 8:2 FTS	39108-34-4	1	µg/kg	ND
6:2 Cl-PFESA; 9Cl-PF3ONS	756426-58-1	1	µg/kg	ND
10:2 FTS	108026-35-3	1	µg/kg	ND
8:2 Cl-PFESA; 11Cl-PF3OUdS	763051-92-9	1	µg/kg	ND
DONA; ADONA	919005-14-4	1	µg/kg	ND
EtFOSE	1691-99-2	1	µg/kg	ND
FBSA	30334-69-1	1	µg/kg	ND
FHxSA	41997-13-1	1	µg/kg	ND
FOSAA	2806-24-8	1	µg/kg	ND
HFPO-DA (Gen X)	13252-13-6	1	µg/kg	ND
HFPO-TA	13252-14-7	1	µg/kg	ND
EtFOSA; N-EtFOSA	4151-50-2	1	µg/kg	ND
NEtFOSAA; EtFOSAA	2991-50-6	1	µg/kg	ND
NFDHA	151772-58-6	1	µg/kg	ND
MeFOSA; N-MeFOSA	31506-32-8	1	µg/kg	ND
NMeFOSAA; MeFOSAA	2355-31-9	1	µg/kg	ND
MeFOSE	24448-09-7	1	µg/kg	ND
PFBA	375-22-4	1	µg/kg	ND
PFBS	375-73-5	1	µg/kg	ND
PFDA	335-76-2	1	µg/kg	ND
PFDaA	307-55-1	1	µg/kg	ND
PFDaS	79780-39-5	1	µg/kg	ND
PFDS	335-77-3	1	µg/kg	ND
PFEESA	113507-82-7	1	µg/kg	ND
PFHpA	375-85-9	1	µg/kg	ND
PFHpS	375-92-8	1	µg/kg	ND
PFHxA	307-24-4	1	µg/kg	ND
PFHxDA	67905-19-5	1	µg/kg	ND
PFHxS Linear	355-46-4	1	µg/kg	ND
PFHxS Branched #	-	1	µg/kg	ND
PFHxS Total #	-	1	µg/kg	ND
PFMOBA	863090-89-5	1	µg/kg	ND
PFMOPrA	377-73-1	1	µg/kg	ND

Results PFAS

Sample Type : Soil

Test Report Number : 2025-735

Customer Sample Identifier : 1952660 WL 12A-BH1 20-3-25

Sample Condition : Conforming

Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Conc.
PFNA	375-95-1	1	µg/kg	ND
PFNS	68259-12-1	1	µg/kg	ND
PFOA Linear	335-67-1	1	µg/kg	ND
PFOA Branched #	-	1	µg/kg	ND
PFOA Total #	-	1	µg/kg	ND
PFODA	16517-11-6	1	µg/kg	ND
PFOS Linear	1763-23-1	1	µg/kg	ND
PFOS Branched #	-	1	µg/kg	ND
PFOS Total #	-	1	µg/kg	ND
FOSA (PFOSA)	754-91-6	1	µg/kg	ND
PFPeA	2706-90-3	1	µg/kg	ND
PFPeS	2706-91-4	1	µg/kg	ND
PFTeA	376-06-7	1	µg/kg	ND
PFTTrDA (PFTTriA)	72629-94-8	1	µg/kg	ND
PFUdA; PFUnA	2058-94-8	1	µg/kg	ND
PFUnDS	749786-16-1	1	µg/kg	ND

ND - not detected

Non Accredited



TEST REPORT

Report Number: 2025-674

Customer Name : Eurofins Chemtest Ltd

Customer Address : 11 Depot Road
Newmarket, Suffolk
CB8 0AL

Order Number : 28603

Additional Reference: 25-09823

Issue : 0

Date of Receipt : 25/03/2025

Date of Analysis : 31/03/2025

Date of Report : 07/04/2025

Sample Type : Soil

Customer Sample Identifier : 1950773 P304 14/03/25

Sample Condition : Conforming

Comments:

Any opinions or interpretations are outside the laboratory's scope of accreditation. The results included within the report are representative of the samples submitted for analysis and are expressed on as received basis, unless otherwise stated. This certificate shall not be reproduced, except in full, without the prior written approval of VLS.

Approved by : Karolina Pettit

Position : Director

Signature : *K. Pettit*

Results PFAS

Sample Type : Soil

Test Report Number : 2025-674

Customer Sample Identifier : 1950773 P304 14/03/25

Sample Condition : Conforming

Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Post TOPA Conc.
3:3 FTCA	356-02-5	1	µg/kg	ND
4:2 FTSA; 4:2 FTS	757124-72-4	1	µg/kg	ND
PFecHS	335-24-0	1	µg/kg	ND
5:3 FTCA	914637-49-3	1	µg/kg	ND
6:2 FTSA; 6:2 FTS	27619-97-2	1	µg/kg	ND
7:3 FTCA	812-70-4	1	µg/kg	ND
8:2 FTSA; 8:2 FTS	39108-34-4	1	µg/kg	ND
6:2 Cl-PFESA; 9Cl-PF3ONS	756426-58-1	1	µg/kg	ND
10:2 FTS	108026-35-3	1	µg/kg	ND
8:2 Cl-PFESA; 11Cl-PF3OUdS	763051-92-9	1	µg/kg	ND
DONA; ADONA	919005-14-4	1	µg/kg	ND
EtFOSE	1691-99-2	1	µg/kg	ND
FBSA	30334-69-1	1	µg/kg	ND
FHxSA	41997-13-1	1	µg/kg	ND
FOSAA	2806-24-8	1	µg/kg	ND
HFPO-DA (Gen X)	13252-13-6	1	µg/kg	ND
HFPO-TA	13252-14-7	1	µg/kg	ND
EtFOSA; N-EtFOSA	4151-50-2	1	µg/kg	ND
NEtFOSAA; EtFOSAA	2991-50-6	1	µg/kg	ND
NFDHA	151772-58-6	1	µg/kg	ND
MeFOSA; N-MeFOSA	31506-32-8	1	µg/kg	ND
NMeFOSAA; MeFOSAA	2355-31-9	1	µg/kg	ND
MeFOSE	24448-09-7	1	µg/kg	ND
PFBA	375-22-4	1	µg/kg	ND
PFBS	375-73-5	1	µg/kg	ND
PFDA	335-76-2	1	µg/kg	ND
PFDaA	307-55-1	1	µg/kg	ND
PFDoS	79780-39-5	1	µg/kg	ND
PFDS	335-77-3	1	µg/kg	ND
PFEESA	113507-82-7	1	µg/kg	ND
PFHpA	375-85-9	1	µg/kg	ND
PFHpS	375-92-8	1	µg/kg	ND
PFHxA	307-24-4	1	µg/kg	ND
PFHxDA	67905-19-5	1	µg/kg	ND
PFHxS Linear	355-46-4	1	µg/kg	ND
PFHxS Branched	-	1	µg/kg	ND
PFHxS Total	-	1	µg/kg	ND
PFMOBA	863090-89-5	1	µg/kg	ND
PFMOPrA	377-73-1	1	µg/kg	ND

Results PFAS

Sample Type : Soil

Test Report Number : 2025-674

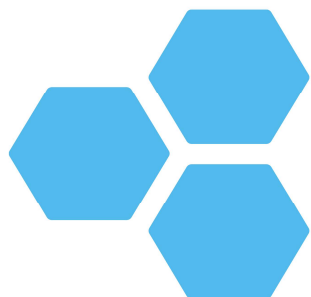
Customer Sample Identifier : 1950773 P304 14/03/25

Sample Condition : Conforming

Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Post TOPA Conc.
PFNA	375-95-1	1	µg/kg	ND
PFNS	68259-12-1	1	µg/kg	ND
PFOA Linear	335-67-1	1	µg/kg	ND
PFOA Branched	-	1	µg/kg	ND
PFOA Total	-	1	µg/kg	ND
PFODA	16517-11-6	1	µg/kg	ND
PFOS Linear	1763-23-1	1	µg/kg	ND
PFOS Branched	-	1	µg/kg	ND
PFOS Total	-	1	µg/kg	ND
FOSA (PFOSA)	754-91-6	1	µg/kg	ND
PFPeA	2706-90-3	1	µg/kg	ND
PFPeS	2706-91-4	1	µg/kg	ND
PFTeA	376-06-7	1	µg/kg	ND
PFTTrDA (PFTTriA)	72629-94-8	1	µg/kg	ND
PFUdA; PFUnA	2058-94-8	1	µg/kg	ND
PFUnDS	749786-16-1	1	µg/kg	ND

ND - not detected



**VERITAS
LABORATORY
SERVICES**

TEST REPORT

Report Number: 2025-674

Customer Name : Eurofins Chemtest Ltd

Customer Address : 11 Depot Road
Newmarket, Suffolk
CB8 0AL

Order Number : 28603

Additional Reference: 25-09823

Issue : 0

Date of Receipt : 25/03/2025

Date of Analysis : 31/03/2025

Date of Report : 07/04/2025

Sample Type : Soil

Customer Sample Identifier : 1950773 P304 14/03/25

Sample Condition : Conforming

Comments:

Any opinions or interpretations are outside the laboratory's scope of accreditation. The results included within the report are representative of the samples submitted for analysis and are expressed on as received basis, unless otherwise stated. This certificate shall not be reproduced, except in full, without the prior written approval of VLS.

Approved by : Karolina Pettit

Position : Director

Signature : *K. Pettit*



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Results PFAS

Sample Type : Soil

Test Report Number : 2025-674

Customer Sample Identifier : 1950773 P304 14/03/25

Sample Condition : Conforming

Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Conc.
3:3 FTCA	356-02-5	1	µg/kg	ND
4:2 FTSA; 4:2 FTS	757124-72-4	1	µg/kg	ND
PFecHS	335-24-0	1	µg/kg	ND
5:3 FTCA	914637-49-3	1	µg/kg	ND
6:2 FTSA; 6:2 FTS	27619-97-2	1	µg/kg	ND
7:3 FTCA	812-70-4	1	µg/kg	ND
8:2 FTSA; 8:2 FTS	39108-34-4	1	µg/kg	ND
6:2 Cl-PFESA; 9Cl-PF3ONS	756426-58-1	1	µg/kg	ND
10:2 FTS	108026-35-3	1	µg/kg	ND
8:2 Cl-PFESA; 11Cl-PF3OUdS	763051-92-9	1	µg/kg	ND
DONA; ADONA	919005-14-4	1	µg/kg	ND
EtFOSE	1691-99-2	1	µg/kg	ND
FBSA	30334-69-1	1	µg/kg	ND
FHxSA	41997-13-1	1	µg/kg	ND
FOSAA	2806-24-8	1	µg/kg	ND
HFPO-DA (Gen X)	13252-13-6	1	µg/kg	ND
HFPO-TA	13252-14-7	1	µg/kg	ND
EtFOSA; N-EtFOSA	4151-50-2	1	µg/kg	ND
NEtFOSAA; EtFOSAA	2991-50-6	1	µg/kg	ND
NFDHA	151772-58-6	1	µg/kg	ND
MeFOSA; N-MeFOSA	31506-32-8	1	µg/kg	ND
NMeFOSAA; MeFOSAA	2355-31-9	1	µg/kg	ND
MeFOSE	24448-09-7	1	µg/kg	ND
PFBA	375-22-4	1	µg/kg	ND
PFBS	375-73-5	1	µg/kg	ND
PFDA	335-76-2	1	µg/kg	ND
PFDaA	307-55-1	1	µg/kg	ND
PFDaS	79780-39-5	1	µg/kg	ND
PFDS	335-77-3	1	µg/kg	ND
PFEESA	113507-82-7	1	µg/kg	ND
PFHpA	375-85-9	1	µg/kg	ND
PFHpS	375-92-8	1	µg/kg	ND
PFHxA	307-24-4	1	µg/kg	ND
PFHxDA	67905-19-5	1	µg/kg	ND
PFHxS Linear	355-46-4	1	µg/kg	ND
PFHxS Branched #	-	1	µg/kg	ND
PFHxS Total #	-	1	µg/kg	ND
PFMOBA	863090-89-5	1	µg/kg	ND
PFMOPrA	377-73-1	1	µg/kg	ND

Results PFAS

Sample Type : Soil

Test Report Number : 2025-674

Customer Sample Identifier : 1950773 P304 14/03/25

Sample Condition : Conforming

Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Conc.
PFNA	375-95-1	1	µg/kg	ND
PFNS	68259-12-1	1	µg/kg	ND
PFOA Linear	335-67-1	1	µg/kg	ND
PFOA Branched #	-	1	µg/kg	ND
PFOA Total #	-	1	µg/kg	ND
PFODA	16517-11-6	1	µg/kg	ND
PFOS Linear	1763-23-1	1	µg/kg	ND
PFOS Branched #	-	1	µg/kg	ND
PFOS Total #	-	1	µg/kg	ND
FOSA (PFOSA)	754-91-6	1	µg/kg	ND
PFPeA	2706-90-3	1	µg/kg	ND
PFPeS	2706-91-4	1	µg/kg	ND
PFTeA	376-06-7	1	µg/kg	ND
PFTTrDA (PFTTriA)	72629-94-8	1	µg/kg	ND
PFUdA; PFUnA	2058-94-8	1	µg/kg	ND
PFUnDS	749786-16-1	1	µg/kg	ND

ND - not detected

Non Accredited



TEST REPORT

Report Number: 2025-673

Customer Name : Eurofins Chemtest Ltd

Customer Address : 11 Depot Road
Newmarket, Suffolk
CB8 0AL

Order Number : 28603

Additional Reference: 25-09823

Issue : 0

Date of Receipt : 25/03/2025

Date of Analysis : 31/03/2025

Date of Report : 07/04/2025

Sample Type : Soil

Customer Sample Identifier : 1950772 TP301 14/03/25

Sample Condition : Conforming

Comments:

Any opinions or interpretations are outside the laboratory's scope of accreditation. The results included within the report are representative of the samples submitted for analysis and are expressed on as received basis, unless otherwise stated. This certificate shall not be reproduced, except in full, without the prior written approval of VLS.

Approved by : Karolina Pettit

Position : Director

Signature : *K. Pettit*

Results PFAS

Sample Type : Soil

Test Report Number : 2025-673

Customer Sample Identifier : 1950772 TP301 14/03/25

Sample Condition : Conforming

Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Post TOPA Conc.
3:3 FTCA	356-02-5	1	µg/kg	ND
4:2 FTSA; 4:2 FTS	757124-72-4	1	µg/kg	ND
PFecHS	335-24-0	1	µg/kg	ND
5:3 FTCA	914637-49-3	1	µg/kg	ND
6:2 FTSA; 6:2 FTS	27619-97-2	1	µg/kg	ND
7:3 FTCA	812-70-4	1	µg/kg	ND
8:2 FTSA; 8:2 FTS	39108-34-4	1	µg/kg	ND
6:2 Cl-PFESA; 9Cl-PF3ONS	756426-58-1	1	µg/kg	ND
10:2 FTS	108026-35-3	1	µg/kg	ND
8:2 Cl-PFESA; 11Cl-PF3OUdS	763051-92-9	1	µg/kg	ND
DONA; ADONA	919005-14-4	1	µg/kg	ND
EtFOSE	1691-99-2	1	µg/kg	ND
FBSA	30334-69-1	1	µg/kg	ND
FHxSA	41997-13-1	1	µg/kg	ND
FOSAA	2806-24-8	1	µg/kg	ND
HFPO-DA (Gen X)	13252-13-6	1	µg/kg	ND
HFPO-TA	13252-14-7	1	µg/kg	ND
EtFOSA; N-EtFOSA	4151-50-2	1	µg/kg	ND
NEtFOSAA; EtFOSAA	2991-50-6	1	µg/kg	ND
NFDHA	151772-58-6	1	µg/kg	ND
MeFOSA; N-MeFOSA	31506-32-8	1	µg/kg	ND
NMeFOSAA; MeFOSAA	2355-31-9	1	µg/kg	ND
MeFOSE	24448-09-7	1	µg/kg	ND
PFBA	375-22-4	1	µg/kg	ND
PFBS	375-73-5	1	µg/kg	ND
PFDA	335-76-2	1	µg/kg	ND
PFDaA	307-55-1	1	µg/kg	ND
PFDoS	79780-39-5	1	µg/kg	ND
PFDS	335-77-3	1	µg/kg	ND
PFEESA	113507-82-7	1	µg/kg	ND
PFHpA	375-85-9	1	µg/kg	ND
PFHpS	375-92-8	1	µg/kg	ND
PFHxA	307-24-4	1	µg/kg	ND
PFHxDA	67905-19-5	1	µg/kg	ND
PFHxS Linear	355-46-4	1	µg/kg	ND
PFHxS Branched	-	1	µg/kg	ND
PFHxS Total	-	1	µg/kg	ND
PFMOBA	863090-89-5	1	µg/kg	ND
PFMOPrA	377-73-1	1	µg/kg	ND

Results PFAS

Sample Type : Soil

Test Report Number : 2025-673

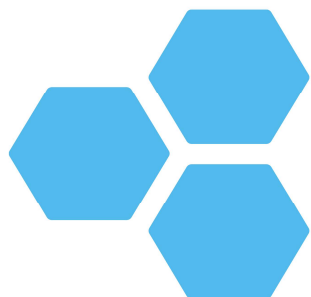
Customer Sample Identifier : 1950772 TP301 14/03/25

Sample Condition : Conforming

Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Post TOPA Conc.
PFNA	375-95-1	1	µg/kg	ND
PFNS	68259-12-1	1	µg/kg	ND
PFOA Linear	335-67-1	1	µg/kg	ND
PFOA Branched	-	1	µg/kg	ND
PFOA Total	-	1	µg/kg	ND
PFODA	16517-11-6	1	µg/kg	ND
PFOS Linear	1763-23-1	1	µg/kg	ND
PFOS Branched	-	1	µg/kg	ND
PFOS Total	-	1	µg/kg	ND
FOSA (PFOSA)	754-91-6	1	µg/kg	ND
PFPeA	2706-90-3	1	µg/kg	ND
PFPeS	2706-91-4	1	µg/kg	ND
PFTeA	376-06-7	1	µg/kg	ND
PFTTrDA (PFTTriA)	72629-94-8	1	µg/kg	ND
PFUdA; PFUnA	2058-94-8	1	µg/kg	ND
PFUnDS	749786-16-1	1	µg/kg	ND

ND - not detected



**VERITAS
LABORATORY
SERVICES**

TEST REPORT

Report Number: 2025-673

Customer Name : Eurofins Chemtest Ltd

Customer Address : 11 Depot Road
Newmarket, Suffolk
CB8 0AL

Order Number : 28603

Additional Reference: 25-09823

Issue : 0

Date of Receipt : 25/03/2025

Date of Analysis : 31/03/2025

Date of Report : 07/04/2025

Sample Type : Soil

Customer Sample Identifier : 1950772 TP301 14/03/25

Sample Condition : Conforming

Comments:

Any opinions or interpretations are outside the laboratory's scope of accreditation. The results included within the report are representative of the samples submitted for analysis and are expressed on as received basis, unless otherwise stated. This certificate shall not be reproduced, except in full, without the prior written approval of VLS.

Approved by : Karolina Pettit

Position : Director

Signature : *K. Pettit*



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Results PFAS

Sample Type : Soil

Test Report Number : 2025-673

Customer Sample Identifier : 1950772 TP301 14/03/25

Sample Condition : Conforming

Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Conc.
3:3 FTCA	356-02-5	1	µg/kg	ND
4:2 FTSA; 4:2 FTS	757124-72-4	1	µg/kg	ND
PFecHS	335-24-0	1	µg/kg	ND
5:3 FTCA	914637-49-3	1	µg/kg	ND
6:2 FTSA; 6:2 FTS	27619-97-2	1	µg/kg	ND
7:3 FTCA	812-70-4	1	µg/kg	ND
8:2 FTSA; 8:2 FTS	39108-34-4	1	µg/kg	ND
6:2 Cl-PFESA; 9Cl-PF3ONS	756426-58-1	1	µg/kg	ND
10:2 FTS	108026-35-3	1	µg/kg	ND
8:2 Cl-PFESA; 11Cl-PF3OUdS	763051-92-9	1	µg/kg	ND
DONA; ADONA	919005-14-4	1	µg/kg	ND
EtFOSE	1691-99-2	1	µg/kg	ND
FBSA	30334-69-1	1	µg/kg	ND
FHxSA	41997-13-1	1	µg/kg	ND
FOSAA	2806-24-8	1	µg/kg	ND
HFPO-DA (Gen X)	13252-13-6	1	µg/kg	ND
HFPO-TA	13252-14-7	1	µg/kg	ND
EtFOSA; N-EtFOSA	4151-50-2	1	µg/kg	ND
NEtFOSAA; EtFOSAA	2991-50-6	1	µg/kg	ND
NFDHA	151772-58-6	1	µg/kg	ND
MeFOSA; N-MeFOSA	31506-32-8	1	µg/kg	ND
NMeFOSAA; MeFOSAA	2355-31-9	1	µg/kg	ND
MeFOSE	24448-09-7	1	µg/kg	ND
PFBA	375-22-4	1	µg/kg	ND
PFBS	375-73-5	1	µg/kg	ND
PFDA	335-76-2	1	µg/kg	ND
PFDaA	307-55-1	1	µg/kg	ND
PFDoS	79780-39-5	1	µg/kg	ND
PFDS	335-77-3	1	µg/kg	ND
PFEESA	113507-82-7	1	µg/kg	ND
PFHpA	375-85-9	1	µg/kg	ND
PFHpS	375-92-8	1	µg/kg	ND
PFHxA	307-24-4	1	µg/kg	ND
PFHxDA	67905-19-5	1	µg/kg	ND
PFHxS Linear	355-46-4	1	µg/kg	ND
PFHxS Branched #	-	1	µg/kg	ND
PFHxS Total #	-	1	µg/kg	ND
PFMOBA	863090-89-5	1	µg/kg	ND
PFMOPrA	377-73-1	1	µg/kg	ND

Results PFAS

Sample Type : Soil

Test Report Number : 2025-673

Customer Sample Identifier : 1950772 TP301 14/03/25

Sample Condition : Conforming

Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Conc.
PFNA	375-95-1	1	µg/kg	ND
PFNS	68259-12-1	1	µg/kg	ND
PFOA Linear	335-67-1	1	µg/kg	ND
PFOA Branched #	-	1	µg/kg	ND
PFOA Total #	-	1	µg/kg	ND
PFODA	16517-11-6	1	µg/kg	ND
PFOS Linear	1763-23-1	1	µg/kg	ND
PFOS Branched #	-	1	µg/kg	ND
PFOS Total #	-	1	µg/kg	ND
FOSA (PFOSA)	754-91-6	1	µg/kg	ND
PFPeA	2706-90-3	1	µg/kg	ND
PFPeS	2706-91-4	1	µg/kg	ND
PFTeA	376-06-7	1	µg/kg	ND
PFTrDA (PFTriA)	72629-94-8	1	µg/kg	ND
PFUdA; PFUnA	2058-94-8	1	µg/kg	ND
PFUnDS	749786-16-1	1	µg/kg	ND

ND - not detected

Non Accredited



TEST REPORT

Report Number: 2025-498

Customer Name : Eurofins Chemtest Ltd

Customer Address : 11 Depot Road
Newmarket, Suffolk
CB8 0AL

Order Number : 28510

Additional Reference: Job No 25-07410

Issue : 0

Date of Receipt : 10/03/2025

Date of Analysis : 14/03/2025

Date of Report : 24/03/2025

Sample Type : Soil

Customer Sample Identifier : 1941983 TP313 27-02-2025

Sample Condition : Conforming

Comments:

Any opinions or interpretations are outside the laboratory's scope of accreditation. The results included within the report are representative of the samples submitted for analysis and are expressed on as received basis, unless otherwise stated. This certificate shall not be reproduced, except in full, without the prior written approval of VLS.

Approved by : Karolina Pettit

Position : Director

Signature : *K. Pettit*

Results PFAS

Sample Type : Soil

Test Report Number : 2025-498

Customer Sample Identifier : 1941983 TP313 27-02-2025

Sample Condition : Conforming

Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Post TOPA Conc.
3:3 FTCA	356-02-5	1	µg/kg	ND
4:2 FTSA; 4:2 FTS	757124-72-4	1	µg/kg	ND
PFecHS	335-24-0	1	µg/kg	ND
5:3 FTCA	914637-49-3	1	µg/kg	ND
6:2 FTSA; 6:2 FTS	27619-97-2	1	µg/kg	ND
7:3 FTCA	812-70-4	1	µg/kg	ND
8:2 FTSA; 8:2 FTS	39108-34-4	1	µg/kg	ND
6:2 Cl-PFESA; 9Cl-PF3ONS	756426-58-1	1	µg/kg	ND
10:2 FTS	108026-35-3	1	µg/kg	ND
8:2 Cl-PFESA; 11Cl-PF3OUdS	763051-92-9	1	µg/kg	ND
DONA; ADONA	919005-14-4	1	µg/kg	ND
EtFOSE	1691-99-2	1	µg/kg	ND
FBSA	30334-69-1	1	µg/kg	ND
FHxSA	41997-13-1	1	µg/kg	ND
FOSAA	2806-24-8	1	µg/kg	ND
HFPO-DA (Gen X)	13252-13-6	1	µg/kg	ND
HFPO-TA	13252-14-7	1	µg/kg	ND
EtFOSA; N-EtFOSA	4151-50-2	1	µg/kg	ND
NEtFOSAA; EtFOSAA	2991-50-6	1	µg/kg	ND
NFDHA	151772-58-6	1	µg/kg	ND
MeFOSA; N-MeFOSA	31506-32-8	1	µg/kg	ND
NMeFOSAA; MeFOSAA	2355-31-9	1	µg/kg	ND
MeFOSE	24448-09-7	1	µg/kg	ND
PFBA	375-22-4	1	µg/kg	ND
PFBS	375-73-5	1	µg/kg	ND
PFDA	335-76-2	1	µg/kg	ND
PFDaA	307-55-1	1	µg/kg	ND
PFDoS	79780-39-5	1	µg/kg	ND
PFDS	335-77-3	1	µg/kg	ND
PFEESA	113507-82-7	1	µg/kg	ND
PFHpA	375-85-9	1	µg/kg	ND
PFHpS	375-92-8	1	µg/kg	ND
PFHxA	307-24-4	1	µg/kg	ND
PFHxDA	67905-19-5	1	µg/kg	ND
PFHxS Linear	355-46-4	1	µg/kg	ND
PFHxS Branched	-	1	µg/kg	ND
PFHxS Total	-	1	µg/kg	ND
PFMOBA	863090-89-5	1	µg/kg	ND
PFMOPrA	377-73-1	1	µg/kg	ND

Results PFAS

Sample Type : Soil

Test Report Number : 2025-498

Customer Sample Identifier : 1941983 TP313 27-02-2025

Sample Condition : Conforming

Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Post TOPA Conc.
PFNA	375-95-1	1	µg/kg	ND
PFNS	68259-12-1	1	µg/kg	ND
PFOA Linear	335-67-1	1	µg/kg	1.98
PFOA Branched	-	1	µg/kg	ND
PFOA Total	-	1	µg/kg	1.98
PFODA	16517-11-6	1	µg/kg	ND
PFOS Linear	1763-23-1	1	µg/kg	ND
PFOS Branched	-	1	µg/kg	ND
PFOS Total	-	1	µg/kg	ND
FOSA (PFOSA)	754-91-6	1	µg/kg	ND
PFPeA	2706-90-3	1	µg/kg	ND
PFPeS	2706-91-4	1	µg/kg	ND
PFTeA	376-06-7	1	µg/kg	ND
PFTTrDA (PFTTriA)	72629-94-8	1	µg/kg	ND
PFUdA; PFUnA	2058-94-8	1	µg/kg	ND
PFUnDS	749786-16-1	1	µg/kg	ND

ND - not detected



TEST REPORT

Report Number: 2025-498

Customer Name : Eurofins Chemtest Ltd

Customer Address : 11 Depot Road
Newmarket, Suffolk
CB8 0AL

Order Number : 28510

Additional Reference: Job No 25-07410

Issue : 0

Date of Receipt : 10/03/2025

Date of Analysis : 11/03/25

Date of Report : 24/03/25

Sample Type : Soil

Customer Sample Identifier : 1941983 TP313 27-02-2025

Sample Condition : Conforming

Comments:

Any opinions or interpretations are outside the laboratory's scope of accreditation. The results included within the report are representative of the samples submitted for analysis and are expressed on as received basis, unless otherwise stated. This certificate shall not be reproduced, except in full, without the prior written approval of VLS.

Approved by : Karolina Pettit

Position : Director

Signature : *K. Pettit*



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Results PFAS

Sample Type : Soil

Test Report Number : 2025-498

Customer Sample Identifier : 1941983 TP313 27-02-2025

Sample Condition : Conforming

Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Conc.
3:3 FTCA	356-02-5	1	µg/kg	ND
4:2 FTSA; 4:2 FTS	757124-72-4	1	µg/kg	ND
PFecHS	335-24-0	1	µg/kg	ND
5:3 FTCA	914637-49-3	1	µg/kg	ND
6:2 FTSA; 6:2 FTS	27619-97-2	1	µg/kg	ND
7:3 FTCA	812-70-4	1	µg/kg	ND
8:2 FTSA; 8:2 FTS	39108-34-4	1	µg/kg	ND
6:2 Cl-PFESA; 9Cl-PF3ONS	756426-58-1	1	µg/kg	ND
10:2 FTS ^	108026-35-3	1	µg/kg	ND
8:2 Cl-PFESA; 11Cl-PF3OUdS	763051-92-9	1	µg/kg	ND
DONA; ADONA	919005-14-4	1	µg/kg	ND
EtFOSE	1691-99-2	1	µg/kg	ND
FBSA	30334-69-1	1	µg/kg	ND
FHxSA	41997-13-1	1	µg/kg	ND
FOSAA	2806-24-8	1	µg/kg	ND
HFPO-DA (Gen X)	13252-13-6	1	µg/kg	ND
HFPO-TA	13252-14-7	1	µg/kg	ND
EtFOSA; N-EtFOSA	4151-50-2	1	µg/kg	ND
NEtFOSAA; EtFOSAA	2991-50-6	1	µg/kg	ND
NFDHA	151772-58-6	1	µg/kg	ND
MeFOSA; N-MeFOSA	31506-32-8	1	µg/kg	ND
NMeFOSAA; MeFOSAA	2355-31-9	1	µg/kg	ND
MeFOSE	24448-09-7	1	µg/kg	ND
PFBA	375-22-4	1	µg/kg	ND
PFBS	375-73-5	1	µg/kg	ND
PFDA	335-76-2	1	µg/kg	ND
PFDaA	307-55-1	1	µg/kg	ND
PFDaS	79780-39-5	1	µg/kg	ND
PFDS	335-77-3	1	µg/kg	ND
PFEESA	113507-82-7	1	µg/kg	ND
PFHpA	375-85-9	1	µg/kg	ND
PFHpS	375-92-8	1	µg/kg	ND
PFHxA	307-24-4	1	µg/kg	ND
PFHxDA	67905-19-5	1	µg/kg	ND
PFHxS Linear	355-46-4	1	µg/kg	ND
PFHxS Branched #	-	1	µg/kg	ND
PFHxS Total #	-	1	µg/kg	ND
PFMOBA	863090-89-5	1	µg/kg	ND
PFMOPrA	377-73-1	1	µg/kg	ND

Results PFAS

Sample Type : Soil

Test Report Number : 2025-498

Customer Sample Identifier : 1941983 TP313 27-02-2025

Sample Condition : Conforming

Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Conc.
PFNA	375-95-1	1	µg/kg	ND
PFNS	68259-12-1	1	µg/kg	ND
PFOA Linear	335-67-1	1	µg/kg	ND
PFOA Branched #	-	1	µg/kg	ND
PFOA Total #	-	1	µg/kg	ND
PFODA	16517-11-6	1	µg/kg	ND
PFOS Linear	1763-23-1	1	µg/kg	ND
PFOS Branched #	-	1	µg/kg	ND
PFOS Total #	-	1	µg/kg	ND
FOSA (PFOSA)	754-91-6	1	µg/kg	ND
PFPeA	2706-90-3	1	µg/kg	ND
PFPeS	2706-91-4	1	µg/kg	ND
PFTeA	376-06-7	1	µg/kg	ND
PFTTrDA (PFTTriA)	72629-94-8	1	µg/kg	ND
PFUdA; PFUnA	2058-94-8	1	µg/kg	ND
PFUnDS	749786-16-1	1	µg/kg	ND

ND - not detected

Non Accredited

^ The recovery of ES standard either <70% or >130%

NB - The above does not affect the results as recoveries % within EPA1633 method range.



TEST REPORT

Report Number: 2025-497

Customer Name : Eurofins Chemtest Ltd

Customer Address : 11 Depot Road
Newmarket, Suffolk
CB8 0AL

Order Number : 28510

Additional Reference: Job No 25-07410

Issue : 0

Date of Receipt : 10/03/2025

Date of Analysis : 14/03/2025

Date of Report : 24/03/2025

Sample Type : Soil

Customer Sample Identifier : 1941982 TP311 27-02-2025

Sample Condition : Conforming

Comments:

Any opinions or interpretations are outside the laboratory's scope of accreditation. The results included within the report are representative of the samples submitted for analysis and are expressed on as received basis, unless otherwise stated. This certificate shall not be reproduced, except in full, without the prior written approval of VLS.

Approved by : Karolina Pettit

Position : Director

Signature : *K. Pettit*

Results PFAS

Sample Type : Soil

Test Report Number : 2025-497

Customer Sample Identifier : 1941982 TP311 27-02-2025

Sample Condition : Conforming

Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Post TOPA Conc.
3:3 FTCA	356-02-5	1	µg/kg	ND
4:2 FTSA; 4:2 FTS	757124-72-4	1	µg/kg	ND
PFecHS	335-24-0	1	µg/kg	ND
5:3 FTCA	914637-49-3	1	µg/kg	ND
6:2 FTSA; 6:2 FTS	27619-97-2	1	µg/kg	ND
7:3 FTCA	812-70-4	1	µg/kg	ND
8:2 FTSA; 8:2 FTS	39108-34-4	1	µg/kg	ND
6:2 Cl-PFESA; 9Cl-PF3ONS	756426-58-1	1	µg/kg	ND
10:2 FTS	108026-35-3	1	µg/kg	ND
8:2 Cl-PFESA; 11Cl-PF3OUdS	763051-92-9	1	µg/kg	ND
DONA; ADONA	919005-14-4	1	µg/kg	ND
EtFOSE	1691-99-2	1	µg/kg	ND
FBSA	30334-69-1	1	µg/kg	ND
FHxSA	41997-13-1	1	µg/kg	ND
FOSAA	2806-24-8	1	µg/kg	ND
HFPO-DA (Gen X)	13252-13-6	1	µg/kg	ND
HFPO-TA	13252-14-7	1	µg/kg	ND
EtFOSA; N-EtFOSA	4151-50-2	1	µg/kg	ND
NEtFOSAA; EtFOSAA	2991-50-6	1	µg/kg	ND
NFDHA	151772-58-6	1	µg/kg	ND
MeFOSA; N-MeFOSA	31506-32-8	1	µg/kg	ND
NMeFOSAA; MeFOSAA	2355-31-9	1	µg/kg	ND
MeFOSE	24448-09-7	1	µg/kg	ND
PFBA	375-22-4	1	µg/kg	ND
PFBS	375-73-5	1	µg/kg	ND
PFDA	335-76-2	1	µg/kg	ND
PFDaA	307-55-1	1	µg/kg	ND
PFDoS	79780-39-5	1	µg/kg	ND
PFDS	335-77-3	1	µg/kg	ND
PFEESA	113507-82-7	1	µg/kg	ND
PFHpA	375-85-9	1	µg/kg	ND
PFHpS	375-92-8	1	µg/kg	ND
PFHxA	307-24-4	1	µg/kg	ND
PFHxDA	67905-19-5	1	µg/kg	ND
PFHxS Linear	355-46-4	1	µg/kg	ND
PFHxS Branched	-	1	µg/kg	ND
PFHxS Total	-	1	µg/kg	ND
PFMOBA	863090-89-5	1	µg/kg	ND
PFMOPrA	377-73-1	1	µg/kg	ND

Results PFAS

Sample Type : Soil

Test Report Number : 2025-497

Customer Sample Identifier : 1941982 TP311 27-02-2025

Sample Condition : Conforming

Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Post TOPA Conc.
PFNA	375-95-1	1	µg/kg	ND
PFNS	68259-12-1	1	µg/kg	ND
PFOA Linear	335-67-1	1	µg/kg	ND
PFOA Branched	-	1	µg/kg	ND
PFOA Total	-	1	µg/kg	ND
PFODA	16517-11-6	1	µg/kg	ND
PFOS Linear	1763-23-1	1	µg/kg	ND
PFOS Branched	-	1	µg/kg	ND
PFOS Total	-	1	µg/kg	ND
FOSA (PFOSA)	754-91-6	1	µg/kg	ND
PFPeA	2706-90-3	1	µg/kg	ND
PFPeS	2706-91-4	1	µg/kg	ND
PFTeA	376-06-7	1	µg/kg	ND
PFTTrDA (PFTTriA)	72629-94-8	1	µg/kg	ND
PFUdA; PFUnA	2058-94-8	1	µg/kg	ND
PFUnDS	749786-16-1	1	µg/kg	ND

ND - not detected



TEST REPORT

Report Number: 2025-497

Customer Name : Eurofins Chemtest Ltd

Customer Address : 11 Depot Road
Newmarket, Suffolk
CB8 0AL

Order Number : 28510

Additional Reference: Job No 25-07410

Issue : 0

Date of Receipt : 10/03/2025

Date of Analysis : 11/03/25

Date of Report : 24/03/25

Sample Type : Soil

Customer Sample Identifier : 1941982 TP311 27-02-2025

Sample Condition : Conforming

Comments:

Any opinions or interpretations are outside the laboratory's scope of accreditation. The results included within the report are representative of the samples submitted for analysis and are expressed on as received basis, unless otherwise stated. This certificate shall not be reproduced, except in full, without the prior written approval of VLS.

Approved by : Karolina Pettit

Position : Director

Signature : *K. Pettit*



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Results PFAS

Sample Type : Soil

Test Report Number : 2025-497

Customer Sample Identifier : 1941982 TP311 27-02-2025

Sample Condition : Conforming

Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Conc.
3:3 FTCA	356-02-5	1	µg/kg	ND
4:2 FTSA; 4:2 FTS	757124-72-4	1	µg/kg	ND
PFecHS	335-24-0	1	µg/kg	ND
5:3 FTCA	914637-49-3	1	µg/kg	ND
6:2 FTSA; 6:2 FTS	27619-97-2	1	µg/kg	ND
7:3 FTCA	812-70-4	1	µg/kg	ND
8:2 FTSA; 8:2 FTS ^	39108-34-4	1	µg/kg	ND
6:2 Cl-PFESA; 9Cl-PF3ONS	756426-58-1	1	µg/kg	ND
10:2 FTS	108026-35-3	1	µg/kg	ND
8:2 Cl-PFESA; 11Cl-PF3OUdS	763051-92-9	1	µg/kg	ND
DONA; ADONA	919005-14-4	1	µg/kg	ND
EtFOSE	1691-99-2	1	µg/kg	ND
FBSA	30334-69-1	1	µg/kg	ND
FHxSA	41997-13-1	1	µg/kg	ND
FOSAA	2806-24-8	1	µg/kg	ND
HFPO-DA (Gen X)	13252-13-6	1	µg/kg	ND
HFPO-TA	13252-14-7	1	µg/kg	ND
EtFOSA; N-EtFOSA	4151-50-2	1	µg/kg	ND
NEtFOSAA; EtFOSAA	2991-50-6	1	µg/kg	ND
NFDHA	151772-58-6	1	µg/kg	ND
MeFOSA; N-MeFOSA	31506-32-8	1	µg/kg	ND
NMeFOSAA; MeFOSAA	2355-31-9	1	µg/kg	ND
MeFOSE	24448-09-7	1	µg/kg	ND
PFBA	375-22-4	1	µg/kg	ND
PFBS	375-73-5	1	µg/kg	ND
PFDA	335-76-2	1	µg/kg	ND
PFDaA	307-55-1	1	µg/kg	ND
PFDoS	79780-39-5	1	µg/kg	ND
PFDS	335-77-3	1	µg/kg	ND
PFEESA	113507-82-7	1	µg/kg	ND
PFHpA	375-85-9	1	µg/kg	ND
PFHpS	375-92-8	1	µg/kg	ND
PFHxA	307-24-4	1	µg/kg	ND
PFHxDA	67905-19-5	1	µg/kg	ND
PFHxS Linear	355-46-4	1	µg/kg	ND
PFHxS Branched #	-	1	µg/kg	ND
PFHxS Total #	-	1	µg/kg	ND
PFMOBA	863090-89-5	1	µg/kg	ND
PFMOPrA	377-73-1	1	µg/kg	ND

Results PFAS

Sample Type : Soil

Test Report Number : 2025-497

Customer Sample Identifier : 1941982 TP311 27-02-2025

Sample Condition : Conforming

Test Method : VLS SOP 021

PFAS Compound	CAS Reg No	MDLs	Units	Conc.
PFNA	375-95-1	1	µg/kg	ND
PFNS	68259-12-1	1	µg/kg	ND
PFOA Linear	335-67-1	1	µg/kg	ND
PFOA Branched #	-	1	µg/kg	ND
PFOA Total #	-	1	µg/kg	ND
PFODA	16517-11-6	1	µg/kg	ND
PFOS Linear	1763-23-1	1	µg/kg	ND
PFOS Branched #	-	1	µg/kg	ND
PFOS Total #	-	1	µg/kg	ND
FOSA (PFOSA)	754-91-6	1	µg/kg	ND
PFPeA	2706-90-3	1	µg/kg	ND
PFPeS	2706-91-4	1	µg/kg	ND
PFTeA	376-06-7	1	µg/kg	ND
PFTTrDA (PFTTriA)	72629-94-8	1	µg/kg	ND
PFUdA; PFUnA	2058-94-8	1	µg/kg	ND
PFUnDS	749786-16-1	1	µg/kg	ND

ND - not detected

Non Accredited

^ The recovery of ES standard either <70% or >130%

NB - The above does not affect the results as recoveries % within EPA1633 method range.

Final Report

Report No.: 25-17339-1

Initial Date of Issue: 12-Jun-2025

Re-Issue Details:

Client *Priority Geotechnical Ltd*

Client Address: *Unit 12
Owenacurra Business Park
Midleton
County Cork
Ireland*

Contact(s): *Colette Kelly*

Project *P25019 Cleeves*

Quotation No.: *Q24-36680*

Date Received: 23-May-2025

Order No.: 16776

Date Instructed: 23-May-2025

No. of Samples: 6

Turnaround (Wkdays): 15

Results Due: 13-Jun-2025

Date Approved: 12-Jun-2025

Subcon Results Due: 16-Jun-2025

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Water

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:						25-17339	25-17339	25-17339	25-17339	25-17339	25-17339
<i>Quotation No.: Q24-36680</i>		Chemtest Sample ID.:						1977920	1977921	1977922	1977923	1977924	1977925
		<i>Client Reference:</i>						BH312	BH302	BH309	TRIP BLANK	FIELD BLANK	EQUIPMENT BLANK
		<i>Sample Type:</i>						WATER	WATER	WATER	WATER	WATER	WATER
		<i>Sample Sub Type:</i>											
		<i>Date Sampled:</i>						20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
PFAS in Waters (Subcon)		SN			N/A	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached
PFAS Top Assay Waters		SN		ng/l	1.00	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Text example All items indicated in italic font represent customer-supplied information that may not be independently verified by the laboratory
This report shall not be reproduced except in full, and only with the prior approval of the laboratory.
Any comments or interpretations are outside the scope of UKAS accreditation.
The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.
Uncertainty of measurement for the determinands tested are available upon request .
None of the results in this report have been recovery corrected.
All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.
For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.
All Asbestos testing is performed at the indicated laboratory .
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - The required amount of sample for analysis was not received
- H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.
All water samples will be retained for 14 days from the date of receipt.
Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Eurofins Chemtest Ltd
Attn. Mr. J. King
Depot Road 11
GB-CB8 0AL NEWMARKET
GROOT BRITTANIE

Your reference : 25-17339
Our reference : Project 1935760
Validation Ref. : 1935760_certificaat_v1
Verificationcode : KGNT-DWAQ-TAAB-KTNA

Amsterdam, 12 June 2025

I hereby enclose the results of the laboratory tests that have been carried out on your request on the samples that you supplied to us.

I would like to point out to you that the results apply only to the samples supplied, such as these were presented for testing.

The research, with the exception of any outsourced research, was carried out by Eurofins Omegam. Information about the used analysis method(s) can be found in our customer portal My Lab under "Info and Docs".

Do also note that the enclosed report may not be copied or reproduced in any way except in its entirety. I trust that we have completed your order as agreed and to your full satisfaction. If you have any questions reading this report, then please don't hesitate to contact our Customer Service.

Yours sincerely,
On behalf of Eurofins Omegam,



BSc J. Tukker
Production manager

Conditions of delivery of Eurofins Omegam have been registered.
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Trade register No. 34215654

CERTIFICATE

Project code : 1935760
 Your Project Description : 25-17339
 Client : Eurofins Chemtest Ltd

Your Sample identification

8819443 = 1977920 BH312

8819464 = 1977921 BH302

8819465 = 1977922 BH309

Client sampling date	:	20/05/2025	20/05/2025	20/05/2025
Date of receipt	:	28/05/2025	28/05/2025	28/05/2025
Startdate	:	28/05/2025	28/05/2025	28/05/2025
Reference number	:	8819443	8819464	8819465
Your Matrix	:	Water	Water	Water

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS

Perfluorinated carboxylic acids:

PFBA	µg/l	< 0,02	0,07	< 0,02
PFPeA	µg/l	< 0,02	0,29	< 0,02
PFHxA	µg/l	< 0,02	0,14	< 0,02
PFHpA	µg/l	< 0,02	0,04	< 0,02
PFOA linear	µg/l	< 0,02	< 0,02	< 0,02
PFOA branched	µg/l	< 0,02	< 0,02	< 0,02
PFNA	µg/l	< 0,02	< 0,02	< 0,02
PFDA	µg/l	< 0,02	< 0,02	< 0,02
PFUnDA	µg/l	< 0,02	< 0,02	< 0,02
PFDoDA	µg/l	< 0,02	< 0,02	< 0,02
PFTTrDA	µg/l	< 0,02	< 0,02	< 0,02
PFTeDA	µg/l	< 0,02	< 0,02	< 0,02
PFHxDA	µg/l	< 0,02	< 0,02	< 0,02
PFODA	µg/l	< 0,02	< 0,02	< 0,02

Perfluorinated sulfonic acids:

PFBS	µg/l	< 0,02	< 0,02	< 0,02
PFPeS	µg/l	< 0,02	< 0,02	< 0,02
PFHxS	µg/l	< 0,02	< 0,02	< 0,02
PFHpS	µg/l	< 0,02	< 0,02	< 0,02
PFOS linear	µg/l	< 0,02	< 0,02	< 0,02
PFOS branched	µg/l	< 0,02	< 0,02	< 0,02
PFDS	µg/l	< 0,02	< 0,02	< 0,02

Perfluorinated alkyl substances - precursors:

4:2 FTS	µg/l	< 0,05	< 0,05	< 0,05
6:2 FTS	µg/l	< 0,05	< 0,05	< 0,05
8:2 FTS	µg/l	< 0,1	< 0,1	< 0,1
10:2 FTS	µg/l	< 0,05	< 0,05	< 0,05
PFOSA	µg/l	< 0,02	< 0,02	< 0,02

Perfluorinated alkyl substances - remainder:

HPFHpA	µg/l	< 0,5	< 0,5	< 0,5
4H-PFUnDA	µg/l	< 0,05	< 0,05	< 0,05
8:2 FTUCA	µg/l	< 0,05	< 0,05	< 0,05
9CI-PF3ONS (F53-B)	µg/l	< 0,02	< 0,02	< 0,02
ADONA	µg/l	< 0,02	< 0,02	< 0,02
EtFOSA	µg/l	< 0,05	< 0,05	< 0,05
EtFOSAA	µg/l	< 0,02	< 0,02	< 0,02
MeFBSA	µg/l	< 0,02	< 0,02	< 0,02
MeFOSAA	µg/l	< 0,1	< 0,1	< 0,1
P37DMOA	µg/l	< 0,5	< 0,5	< 0,5
PFBSA	µg/l	< 0,02	< 0,02	< 0,02
MeFOSA	µg/l	< 0,05	< 0,05	< 0,05
MeFBSAA	µg/l	< 0,02	< 0,02	< 0,02
8:2 DiPAP	µg/l	< 0,1	< 0,1	< 0,1
HFPO-DA (GenX)	µg/l	< 0,02	< 0,02	< 0,02

CERTIFICATE

Project code : 1935760
Your Project Description : 25-17339
Client : Eurofins Chemtest Ltd

Your Sample identification

8819443 = 1977920 BH312

8819464 = 1977921 BH302

8819465 = 1977922 BH309

Client sampling date	:	20/05/2025	20/05/2025	20/05/2025
Date of receipt	:	28/05/2025	28/05/2025	28/05/2025
Startdate	:	28/05/2025	28/05/2025	28/05/2025
Reference number	:	8819443	8819464	8819465
Your Matrix	:	Water	Water	Water

som PFOA	µg/l	0,03	0,03	0,03
sum PFOS	µg/l	0,03	0,03	0,03

CERTIFICATE

Project code : 1935760
 Your Project Description : 25-17339
 Client : Eurofins Chemtest Ltd

Your Sample identification

8819467 = 1977923 TRIP BLANK
 8819469 = 1977924 FIELD BLANK
 8819470 = 1977925 EQUIPMENT BLANK

Client sampling date	:	20/05/2025	20/05/2025	20/05/2025
Date of receipt	:	28/05/2025	28/05/2025	28/05/2025
Startdate	:	28/05/2025	28/05/2025	28/05/2025
Reference number	:	8819467	8819469	8819470
Your Matrix	:	Water	Water	Water

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS

Perfluorinated carboxylic acids:

PFBA	µg/l	< 0,02	< 0,02	< 0,02
PFPeA	µg/l	< 0,02	< 0,02	< 0,02
PFHxA	µg/l	< 0,02	< 0,02	< 0,02
PFHpA	µg/l	< 0,02	< 0,02	< 0,02
PFOA linear	µg/l	< 0,02	< 0,02	< 0,02
PFOA branched	µg/l	< 0,02	< 0,02	< 0,02
PFNA	µg/l	< 0,02	< 0,02	< 0,02
PFDA	µg/l	< 0,02	< 0,02	< 0,02
PFUnDA	µg/l	< 0,02	< 0,02	< 0,02
PFDoDA	µg/l	< 0,02	< 0,02	< 0,02
PFTTrDA	µg/l	< 0,02	< 0,02	< 0,02
PFTeDA	µg/l	< 0,02	< 0,02	< 0,02
PFHxDA	µg/l	< 0,02	< 0,02	< 0,02
PFODA	µg/l	< 0,02	< 0,02	< 0,02

Perfluorinated sulfonic acids:

PFBS	µg/l	< 0,02	< 0,02	< 0,02
PFPeS	µg/l	< 0,02	< 0,02	< 0,02
PFHxS	µg/l	< 0,02	< 0,02	< 0,02
PFHpS	µg/l	< 0,02	< 0,02	< 0,02
PFOS linear	µg/l	< 0,02	< 0,02	< 0,02
PFOS branched	µg/l	< 0,02	< 0,02	< 0,02
PFDS	µg/l	< 0,02	< 0,02	< 0,02

Perfluorinated alkyl substances - precursors:

4:2 FTS	µg/l	< 0,05	< 0,05	< 0,05
6:2 FTS	µg/l	< 0,05	< 0,05	< 0,05
8:2 FTS	µg/l	< 0,1	< 0,1	< 0,1
10:2 FTS	µg/l	< 0,05	< 0,05	< 0,05
PFOSA	µg/l	< 0,02	< 0,02	< 0,02

Perfluorinated alkyl substances - remainder:

HPFHpA	µg/l	< 0,5	< 0,5	< 0,5
4H-PFUnDA	µg/l	< 0,05	< 0,05	< 0,05
8:2 FTUCA	µg/l	< 0,05	< 0,05	< 0,05
9CI-PF3ONS (F53-B)	µg/l	< 0,02	< 0,02	< 0,02
ADONA	µg/l	< 0,02	< 0,02	< 0,02
EtFOSA	µg/l	< 0,05	< 0,05	< 0,05
EtFOSAA	µg/l	< 0,02	< 0,02	< 0,02
MeFBSA	µg/l	< 0,02	< 0,02	< 0,02
MeFOSAA	µg/l	< 0,1	< 0,1	< 0,1
P37DMOA	µg/l	< 0,5	< 0,5	< 0,5
PFBSA	µg/l	< 0,02	< 0,02	< 0,02
MeFOSA	µg/l	< 0,05	< 0,05	< 0,05
MeFBSAA	µg/l	< 0,02	< 0,02	< 0,02
8:2 DiPAP	µg/l	< 0,1	< 0,1	< 0,1
HFPO-DA (GenX)	µg/l	< 0,02	< 0,02	< 0,02

CERTIFICATE

Project code : 1935760
Your Project Description : 25-17339
Client : Eurofins Chemtest Ltd

Your Sample identification

8819467 = 1977923 TRIP BLANK

8819469 = 1977924 FIELD BLANK

8819470 = 1977925 EQUIPMENT BLANK

Client sampling date	:	20/05/2025	20/05/2025	20/05/2025
Date of receipt	:	28/05/2025	28/05/2025	28/05/2025
Startdate	:	28/05/2025	28/05/2025	28/05/2025
Reference number	:	8819467	8819469	8819470
Your Matrix	:	Water	Water	Water

som PFOA	µg/l	0,03	0,03	0,03
sum PFOS	µg/l	0,03	0,03	0,03

C E R T I F I C A T E

Project code	:	1935760
Your Project Description	:	25-17339
Client	:	Eurofins Chemtest Ltd

Notes related to analyses

General comments

The following information has been provided by the client if applicable:

Project description, Sample identification, Client sampling date, Client Matrix, Sample depth, Pot number (Barcode), Field data, Field observations and sampling data. The client sampling date can affect the validity of the results.

Quantification of branched PFOS/POA is based on DIN 38414-14.

Summation of concentrations for group parameters

Summation is calculated according to AS3000 protocol, paragraph 2.5.2 and appendix 3.

C E R T I F I C A T E

Project code : 1935760
Your Project Description : 25-17339
Client : Eurofins Chemtest Ltd

Appendix Index PFAS

PFAS component	Full name PFAS component
10:2 FTS	10:2 FTS (10:2 Fluorotelomer sulfonic acid)
4:2 FTS	4:2 FTS (4:2 Fluorotelomer sulfonic acid)
4H-PFUnDA	4H-PFUnDA (2H,2H,3H,3H-Perfluoroundecanoic acid)
6:2 FTS	6:2 FTS (6:2 Fluorotelomer sulfonic acid)
8:2 DiPAP	8:2 DiPAP (8:2 Fluorotelomer phosphate diester)
8:2 FTS	8:2 FTS (8:2 Fluorotelomer sulfonic acid)
8:2 FTUCA	8:2 FTUCA (8:2 Fluorotelomer unsaturated carboxylic acid)
9Cl-PF3ONS (F53-B)	9Cl-PF3ONS (F53-B) (9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid)
ADONA	ADONA (ammonium 4,8-dioxa-3H-perfluorononanoate)
EtFOSA	EtFOSA (N-ethyl perfluorooctanesulfonamide)
EtFOSAA	EtFOSAA (perfluorooctanesulfonylamide(N-ethyl)acetate)
HPFHpA	HPFHpA (7H-perfluoroheptanoic acid)
MeFBSA	MeFBSA (N-methylperfluorobutanesulfonylamide)
MeFBSAA	MeFBSAA (perfluorobutanesulfonylamide(N-methyl)acetate)
MeFOSA	MeFOSA (N-methyl perfluorooctanesulfonamide)
MeFOSAA	MeFOSAA (N-methyl perfluorooctanesulfonamidoacetic acid)
P37DMOA	P37DMOA (perfluoro-3,7-dimethyloctanoic acid)
PFBA	PFBA (perfluorobutanoic acid)
PFBS	PFBS (perfluorobutanesulfonic acid)
PFBSA	PFBSA (perfluorobutanesulfonamide)
PFDA	PFDA (perfluorodecanoic acid)
PFDoDA	PFDoDA (perfluorododecanoic acid)
PFDS	PFDS (perfluorodecanesulfonic acid)
PFHhA	PFHhA (perfluoroheptanoic acid)
PFHhS	PFHhS (perfluoroheptanesulfonic acid)
PFHxA	PFHxA (perfluorohexanoic acid)
PFHxDA	PFHxDA (perfluorohexadecanoic acid)
PFHxS	PFHxS (perfluorohexanesulfonic acid)
PFNA	PFNA (perfluorononanoic acid)
PFOA branched	PFOA branched (perfluorooctanoic acid)
PFOA linear	PFOA linear (perfluorooctanoic acid)
PFODA	PFODA (perfluorooctadecanoic acid)
PFOS branched	PFOS branched (perfluorooctanesulfonic acid)
PFOS linear	PFOS linear (perfluorooctanesulfonic acid)
PFOSA	PFOSA (perfluorooctanesulfonamide)
PFPeA	PFPeA (perfluoropentanoic acid)
PFPeS	PFPeS (perfluoropentanesulfonic acid)
PFTeDA	PFTeDA (perfluorotetradecanoic acid)
PFTTrDA	PFTTrDA (perfluorotridecanoic acid)
PFUnDA	PFUnDA (perfluoroundecanoic acid)

Unconfined Compressive Strength, UCS

Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH301**
Depth: **5.8** m
Rock Type **Limestone**
Diameter **78.25** mm
Length **196.5** mm
Bulk Density **2.72** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **77.00** Seconds

Load at Failure, P **227.5** kN

Stress at Failure **47.65** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

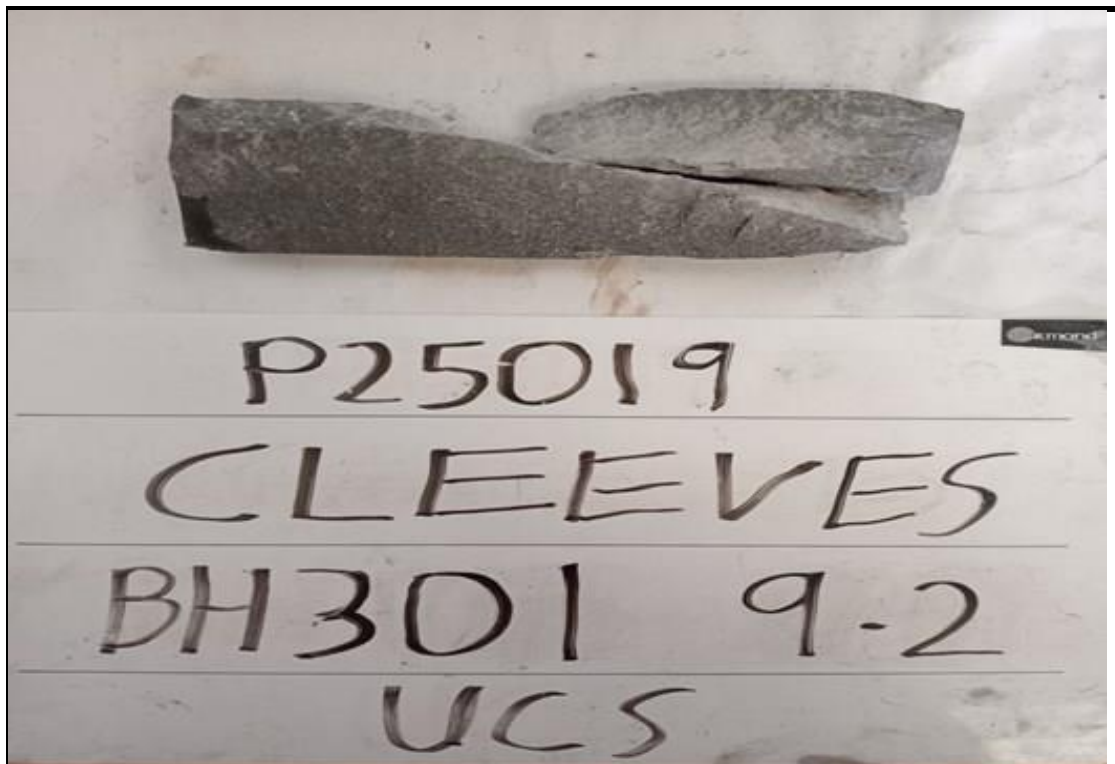
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH301**
Depth: **9.2** m
Rock Type **Limestone**
Diameter **79** mm
Length **164.25** mm
Bulk Density **3.11** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **209.00** Seconds

Load at Failure, P **602.5** kN

Stress at Failure **122.95** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

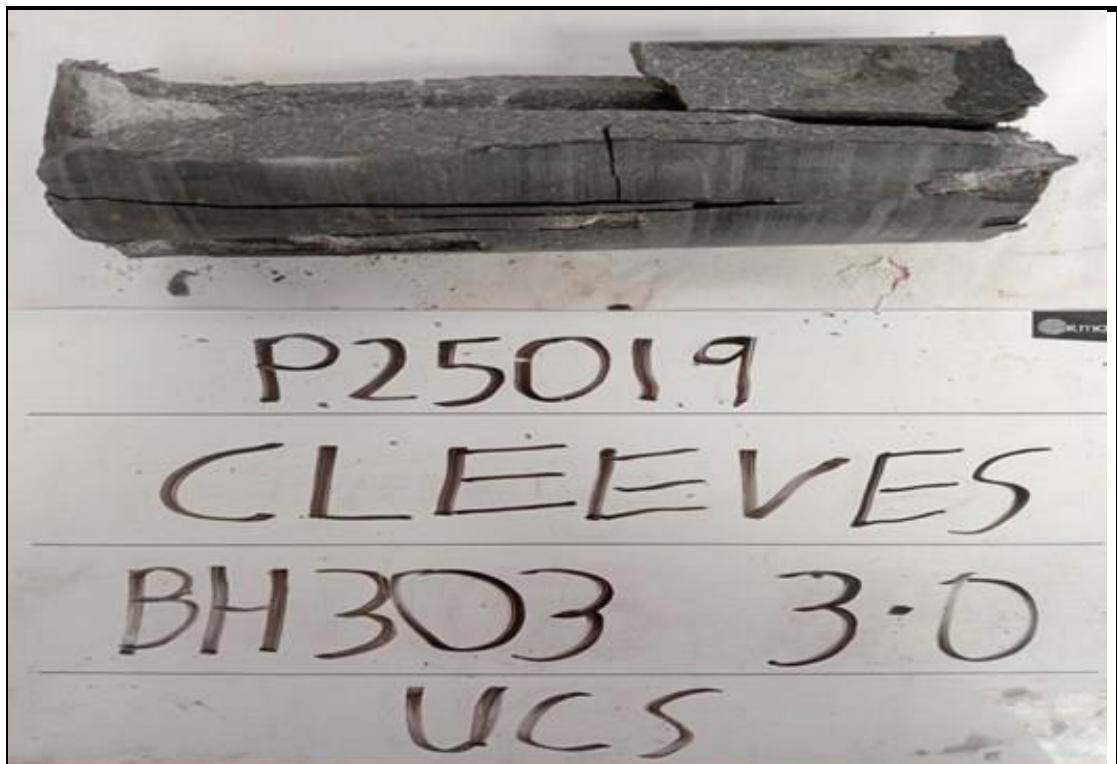
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH303**
Depth: **3** m
Rock Type **Limestone**
Diameter **78.75** mm
Length **198.5** mm
Bulk Density **2.69** Mg/m3

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **138.00** Seconds

Load at Failure, P **308.3** kN

Stress at Failure **79.25** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

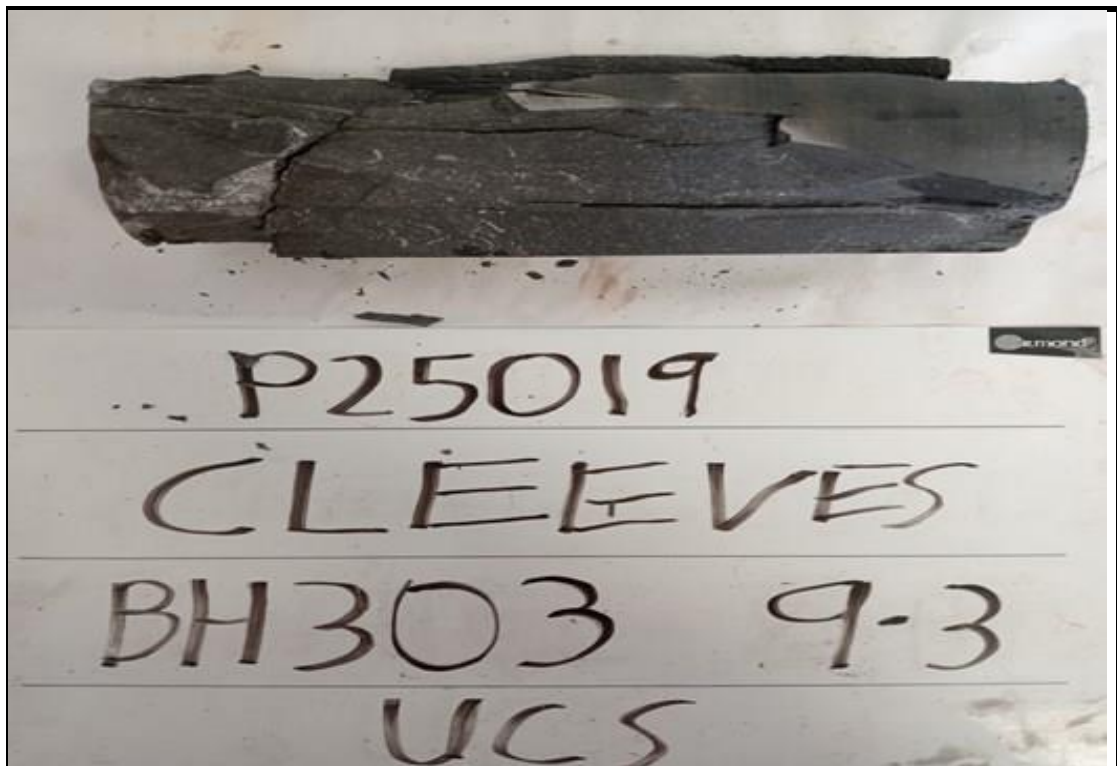
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH303**
Depth: **9.3** m
Rock Type **Limestone**
Diameter **79** mm
Length **201.25** mm
Bulk Density **2.69** Mg/m3

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **169.00** Seconds

Load at Failure, P **483.8** kN

Stress at Failure **98.75** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

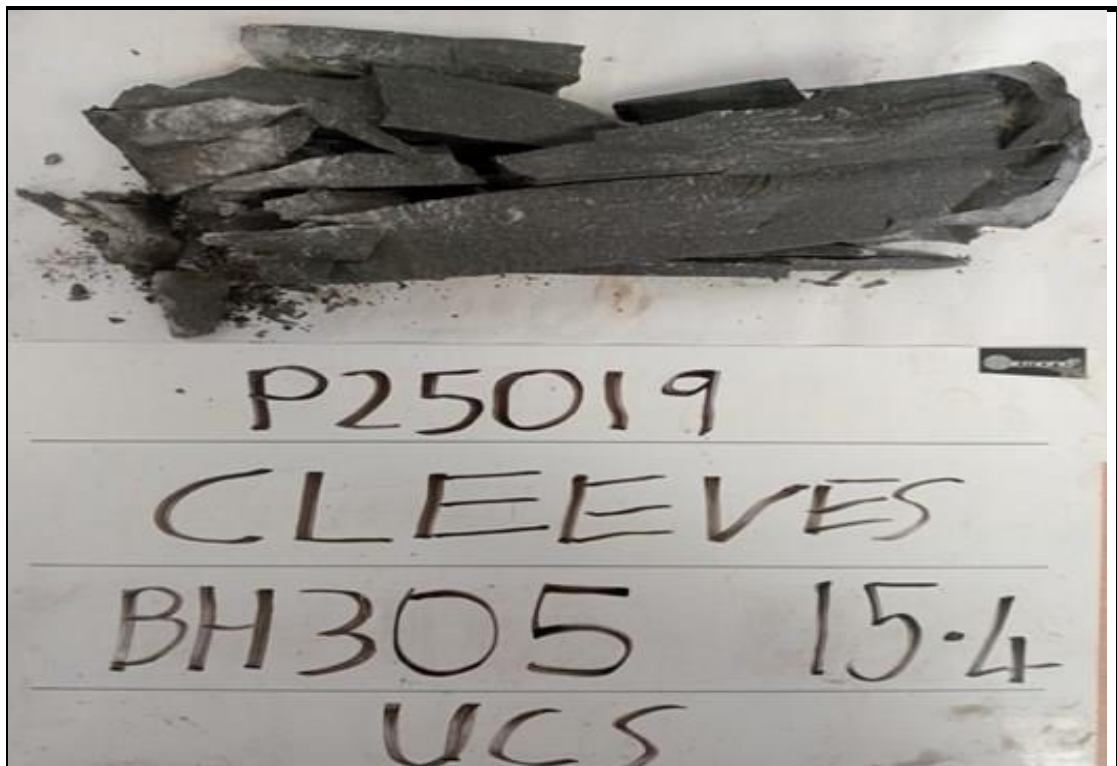
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH305**
Depth: **15.4** m
Rock Type **Limestone**
Diameter **78.5** mm
Length **199** mm
Bulk Density **2.71** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **195.00** Seconds

Load at Failure, P **561.9** kN

Stress at Failure **114.65** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

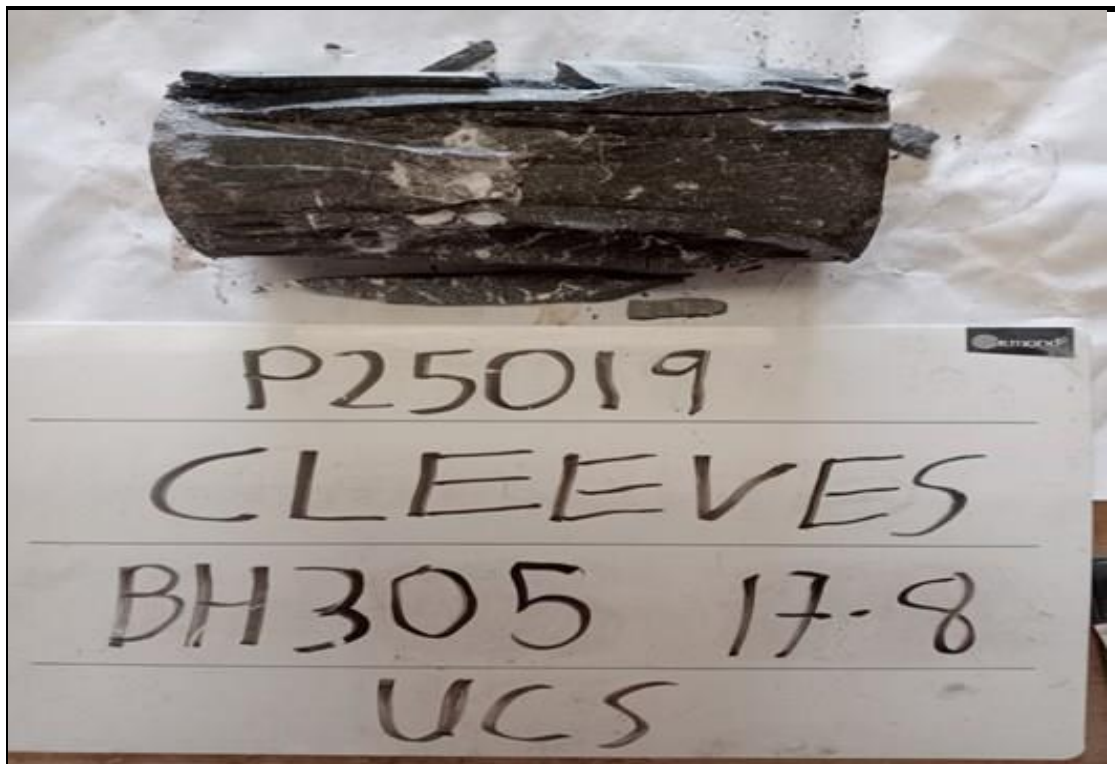
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH305**
Depth: **17.8** m
Rock Type **Limestone**
Diameter **78.5** mm
Length **159.5** mm
Bulk Density **2.71** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **121.00** Seconds

Load at Failure, P **618.6** kN

Stress at Failure **126.25** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

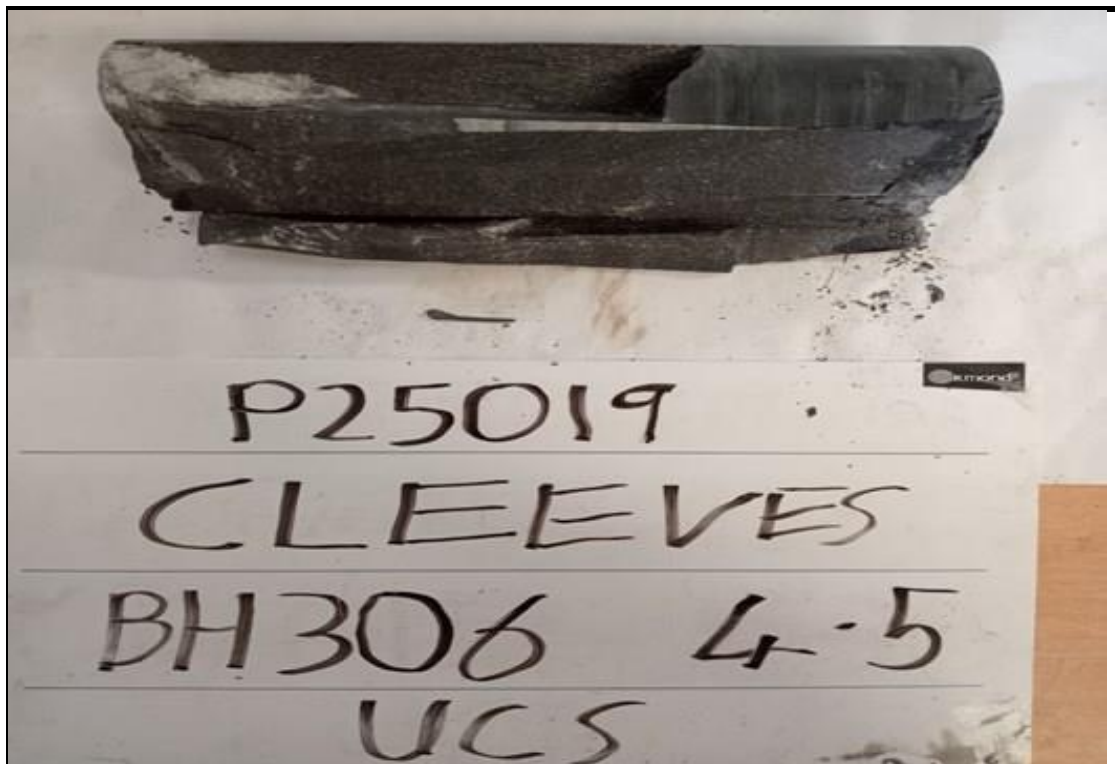
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH306**
Depth: **4.5** m
Rock Type **Limestone**
Diameter **79** mm
Length **155** mm
Bulk Density **3.44** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **3.00** Seconds

Load at Failure, P **562.9** kN

Stress at Failure **114.95** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

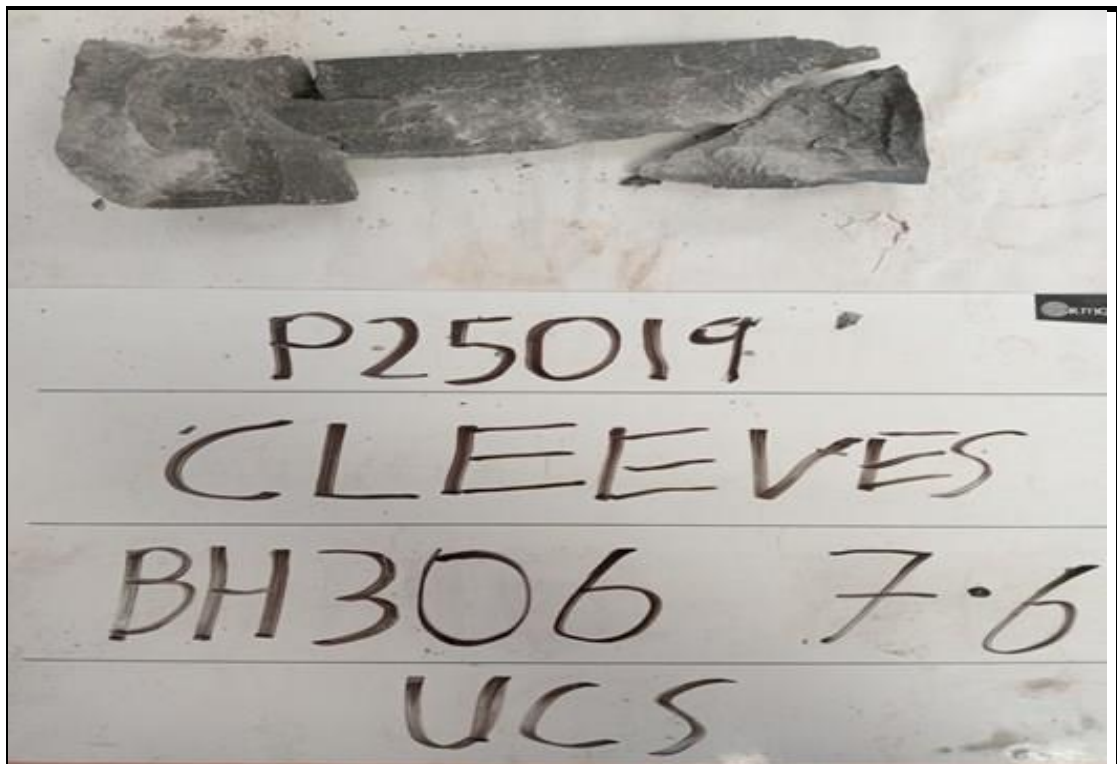
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH306**
Depth: **7.6** m
Rock Type **Limestone**
Diameter **79** mm
Length **199.5** mm
Bulk Density **2.68** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **3.00** Seconds

Load at Failure, P **743** kN

Stress at Failure **151.65** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

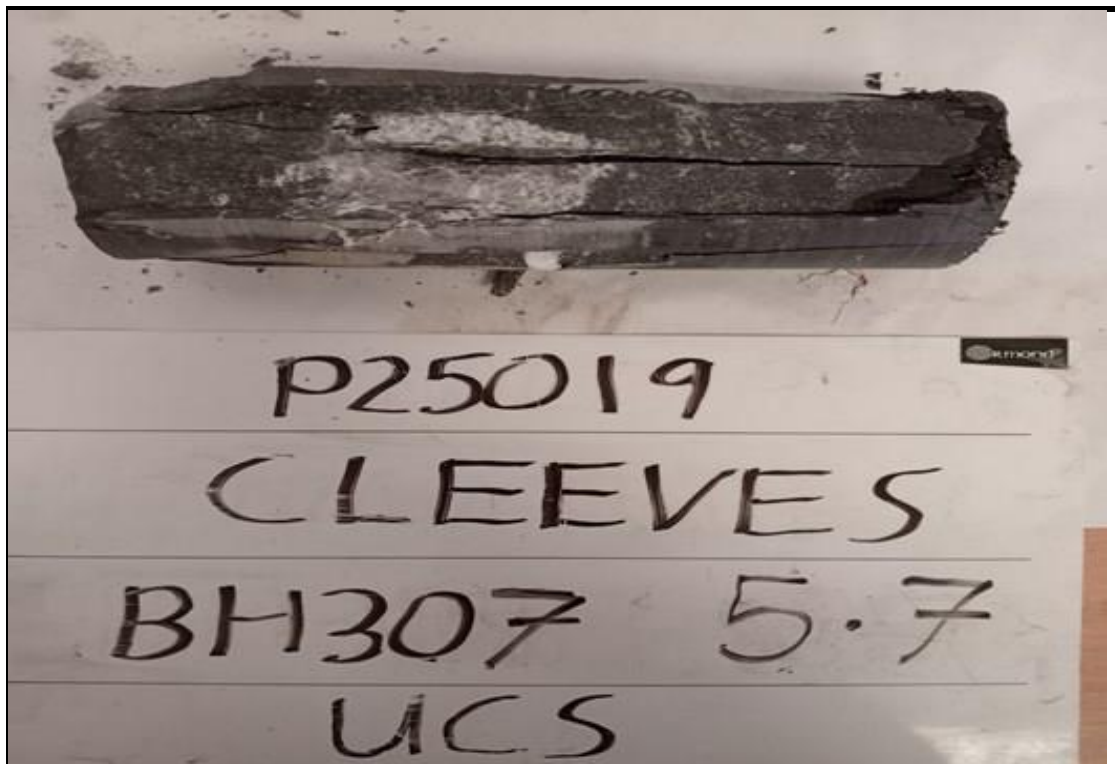
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH307**
Depth: **5.7** m
Rock Type **Limestone**
Diameter **79** mm
Length **199.5** mm
Bulk Density **2.67** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **197.00** Seconds

Load at Failure, P **568.7** kN

Stress at Failure **116.05** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

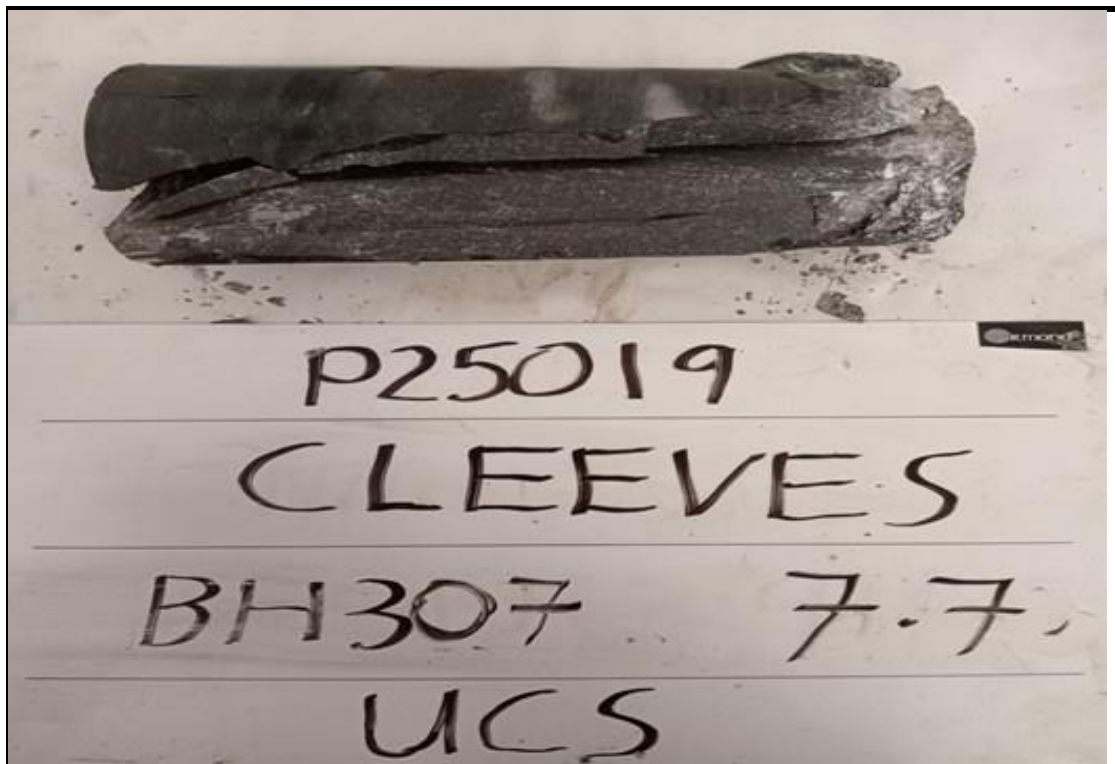
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH307**
Depth: **7.7** m
Rock Type **Limestone**
Diameter **78.75** mm
Length **197.25** mm
Bulk Density **2.69** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **107.00** Seconds

Load at Failure, P **240.1** kN

Stress at Failure **49.05** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

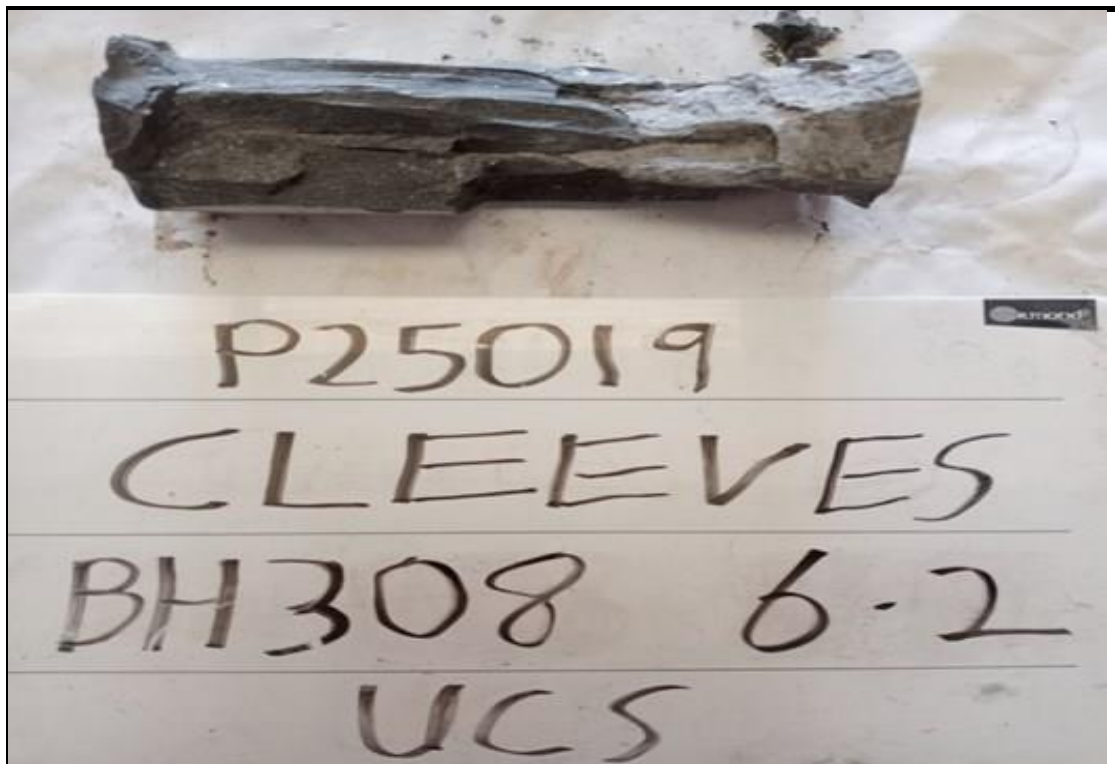
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH308**
Depth: **6.2** m
Rock Type **Limestone**
Diameter **78.5** mm
Length **169.5** mm
Bulk Density **2.70** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **200.00** Seconds

Load at Failure, P **598.1** kN

Stress at Failure **122.05** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

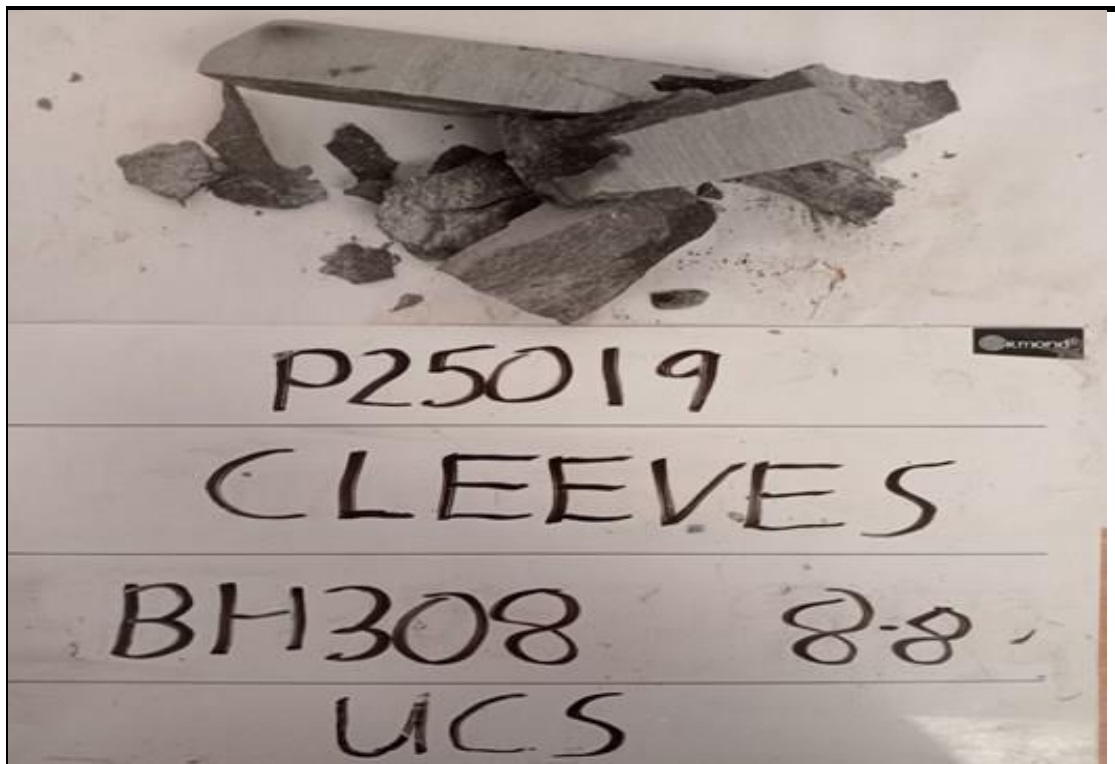
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH308**
Depth: **8.8** m
Rock Type **Limestone**
Diameter **78** mm
Length **194.25** mm
Bulk Density **2.74** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **220.00** Seconds

Load at Failure, P **630.5** kN

Stress at Failure **132.06** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

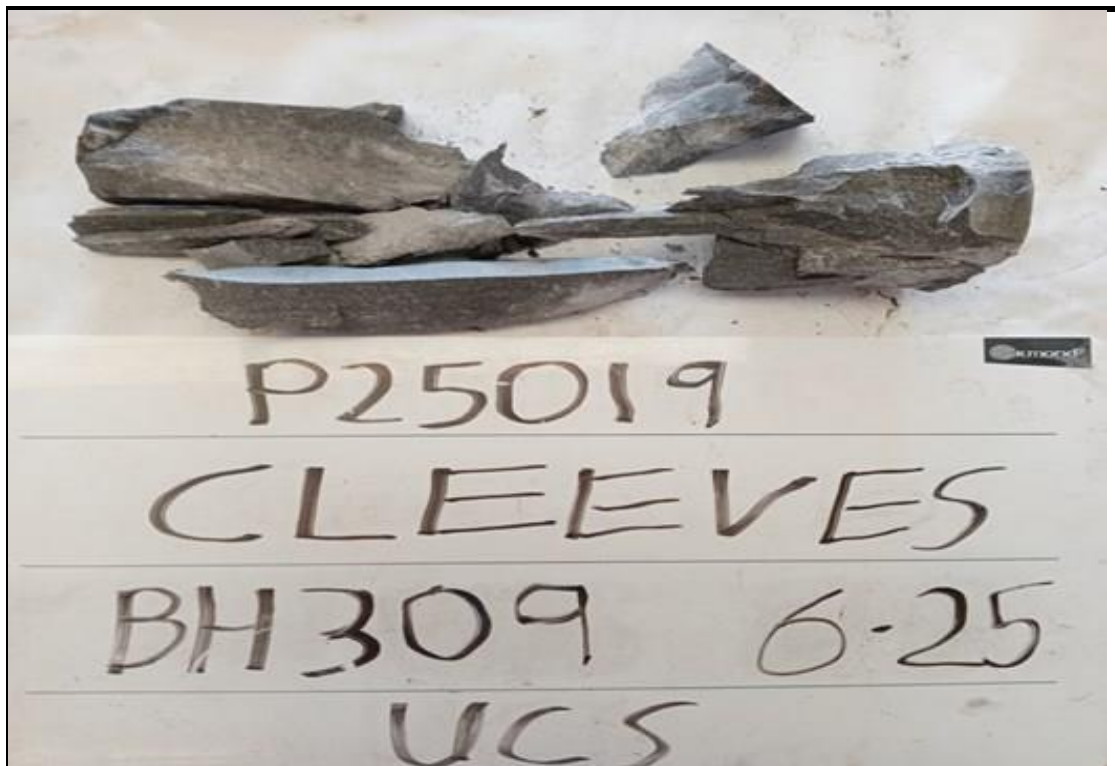
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH309**
Depth: **6.25** m
Rock Type **Limestone**
Diameter **78.5** mm
Length **148.75** mm
Bulk Density **2.77** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **222.00** Seconds

Load at Failure, P **647.6** kN

Stress at Failure **132.15** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

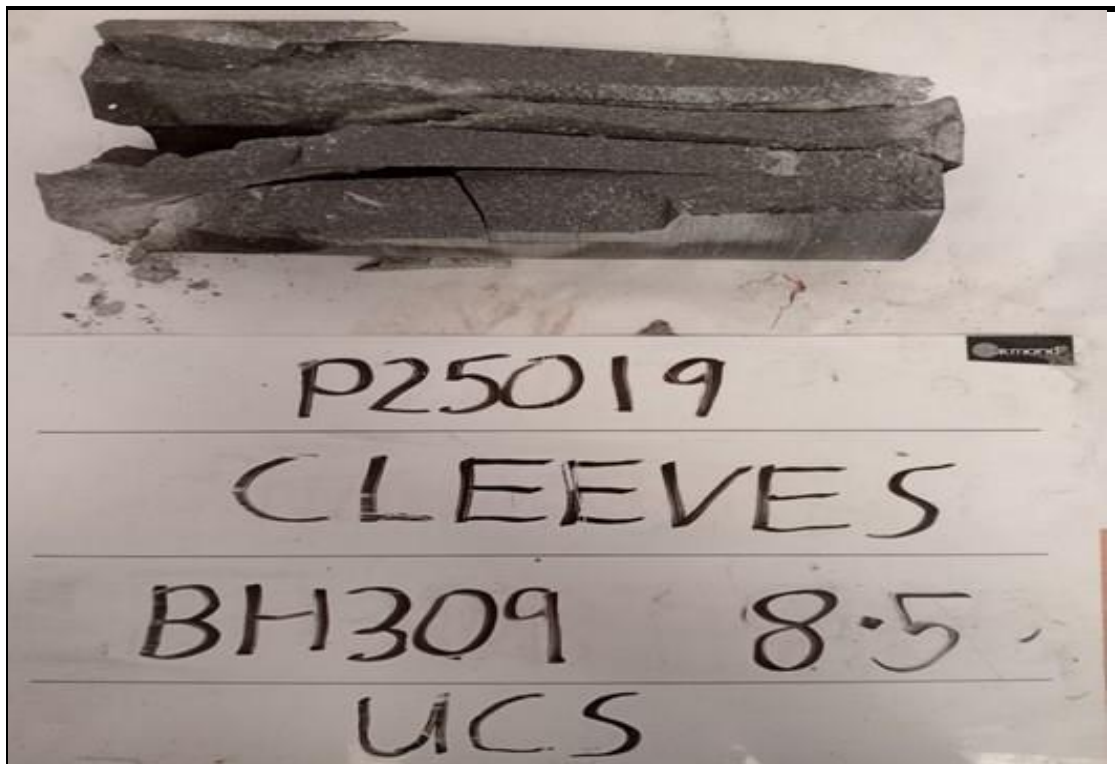
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH309**
Depth: **8.5** m
Rock Type **Limestone**
Diameter **78.75** mm
Length **201.25** mm
Bulk Density **2.69** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **149.00** Seconds

Load at Failure, P **399.2** kN

Stress at Failure **81.45** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

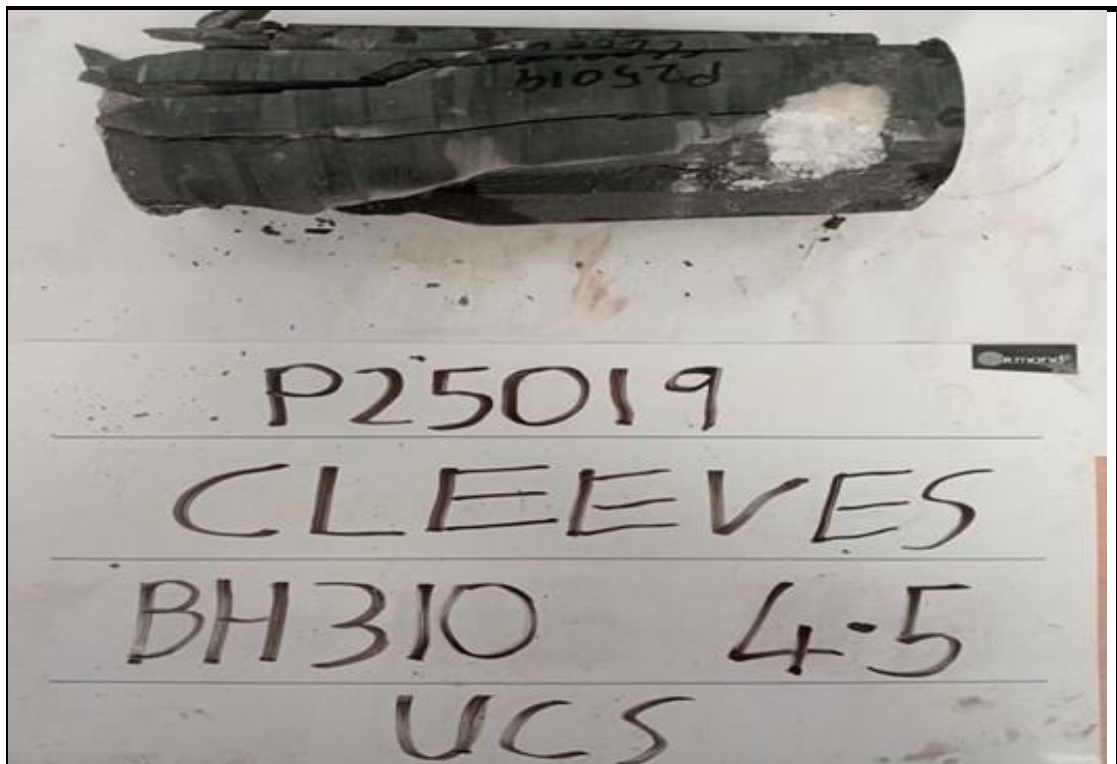
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH310**
Depth: **4.5** m
Rock Type **Limestone**
Diameter **79** mm
Length **196.75** mm
Bulk Density **2.69** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **203.00** Seconds

Load at Failure, P **576.4** kN

Stress at Failure **117.65** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

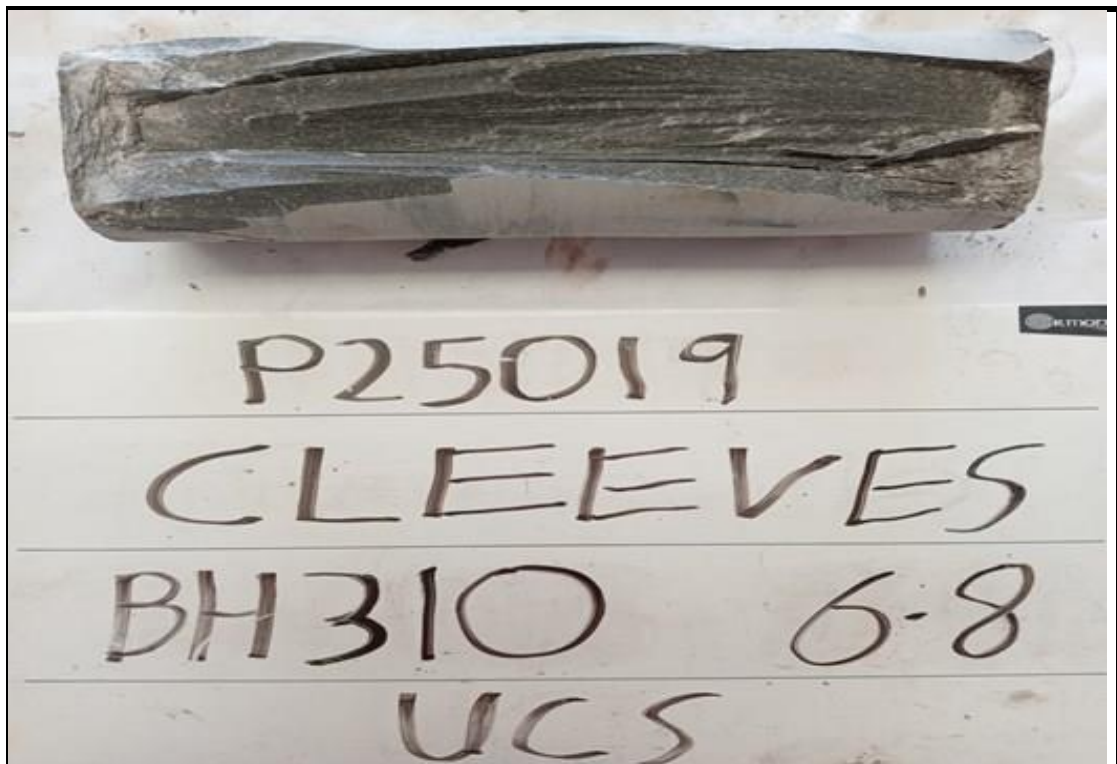
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH310**
Depth: **6.8** m
Rock Type **Limestone**
Diameter **79** mm
Length **197.5** mm
Bulk Density **2.68** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **129.00** Seconds

Load at Failure, P **362.2** kN

Stress at Failure **73.95** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

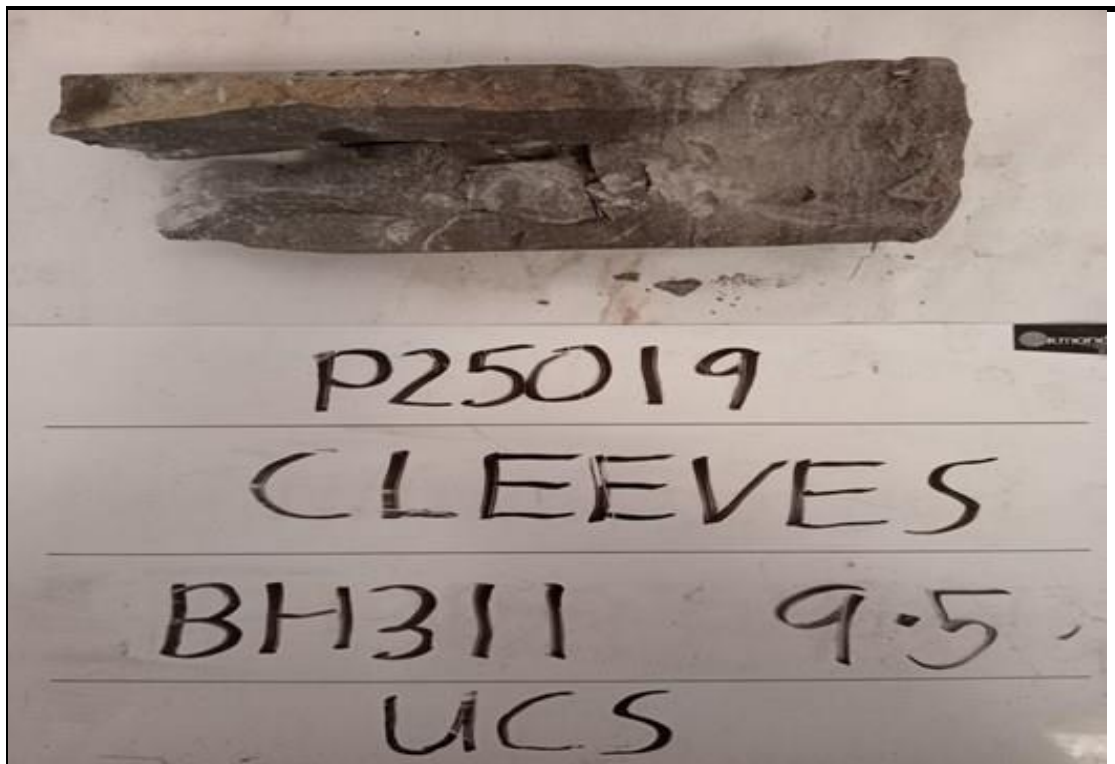
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH311**
Depth: **9.5** m
Rock Type **Limestone**
Diameter **78.5** mm
Length **200.25** mm
Bulk Density **2.70** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **521.50** Seconds

Load at Failure, P **521.5** kN

Stress at Failure **106.45** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

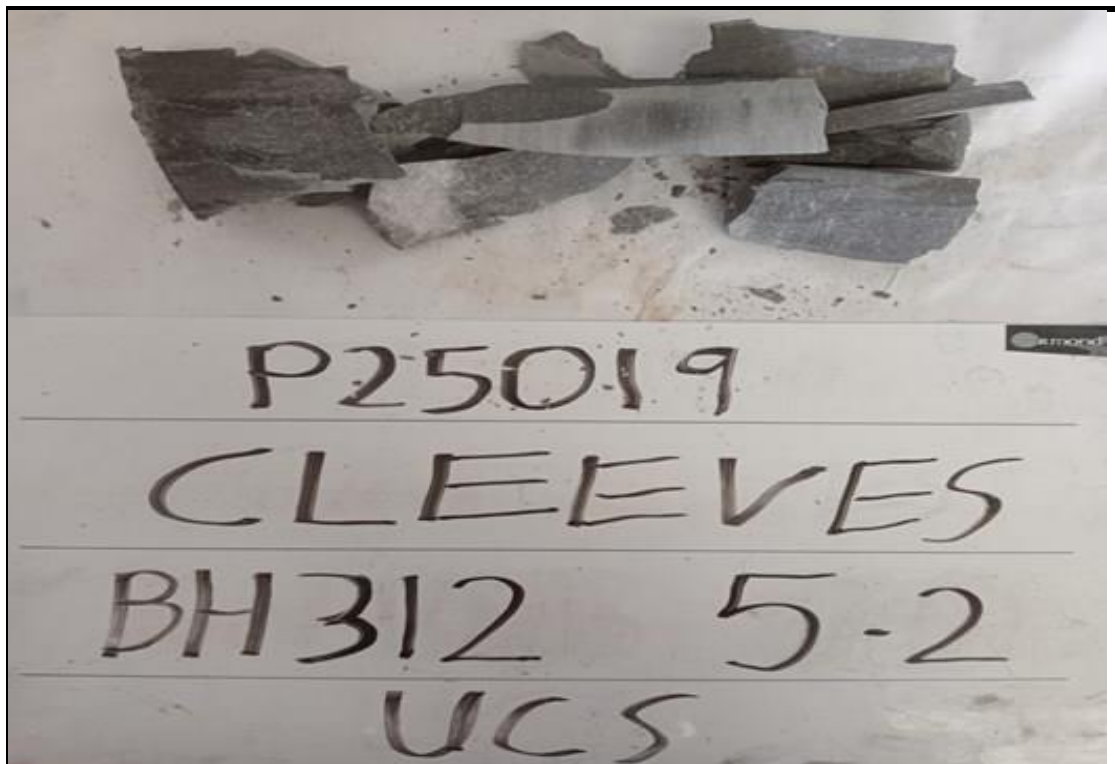
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH312**
Depth: **5.2** m
Rock Type **Limestone**
Diameter **78.75** mm
Length **198** mm
Bulk Density **2.72** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **209.00** Seconds

Load at Failure, P **592.6** kN

Stress at Failure **120.95** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

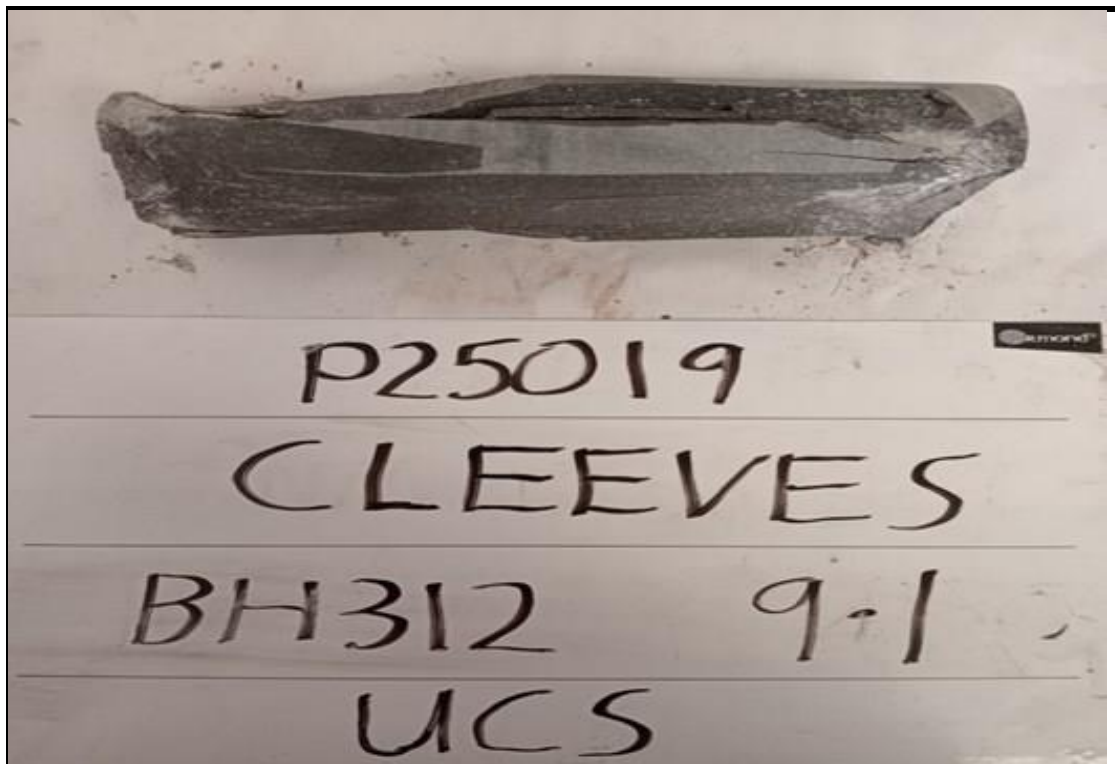
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH312**
Depth: **9.1** m
Rock Type **Limestone**
Diameter **79** mm
Length **196** mm
Bulk Density **2.68** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **114.00** Seconds

Load at Failure, P **331.6** kN

Stress at Failure **67.65** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

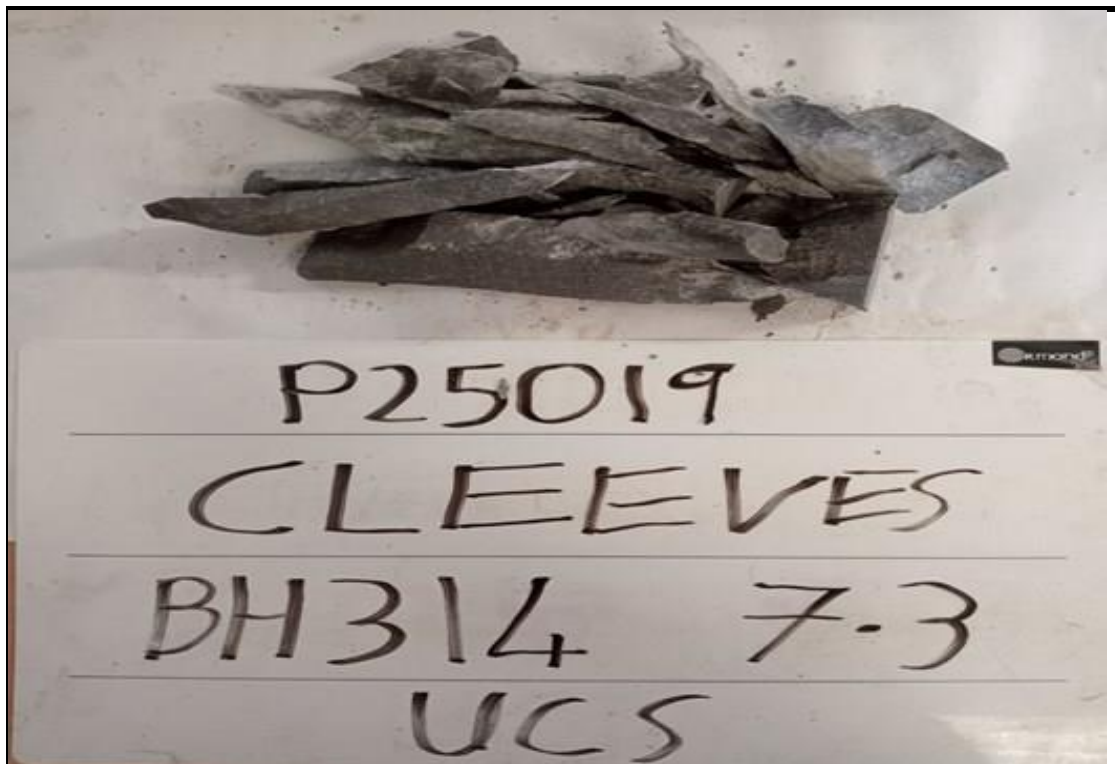
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH314**
Depth: **7.3** m
Rock Type **Limestone**
Diameter **79** mm
Length **197.5** mm
Bulk Density **2.69** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **210.00** Seconds

Load at Failure, P **653.5** kN

Stress at Failure **133.35** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

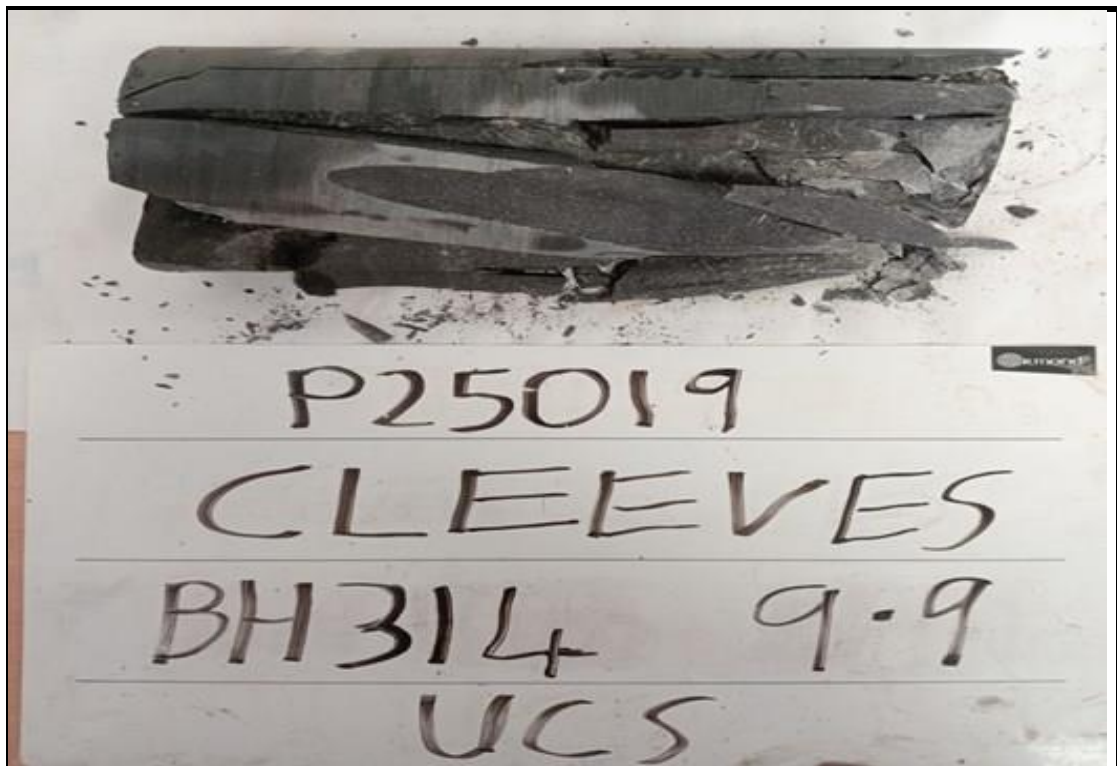
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH314**
Depth: **9.9** m
Rock Type **Limestone**
Diameter **79** mm
Length **200.75** mm
Bulk Density **2.68** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **175.00** Seconds

Load at Failure, P **509.4** kN

Stress at Failure **103.95** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

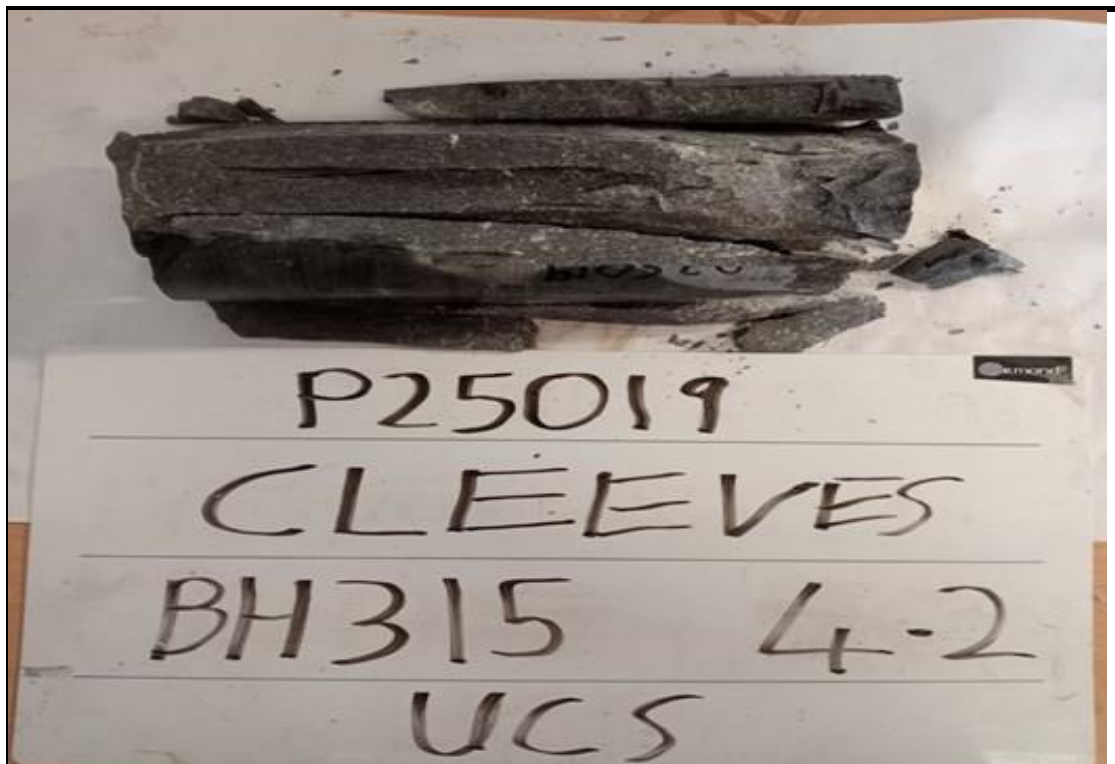
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH315**
Depth: **4.2** m
Rock Type **Limestone**
Diameter **79** mm
Length **197.25** mm
Bulk Density **2.69** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **161.00** Seconds

Load at Failure, P **447.2** kN

Stress at Failure **91.25** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

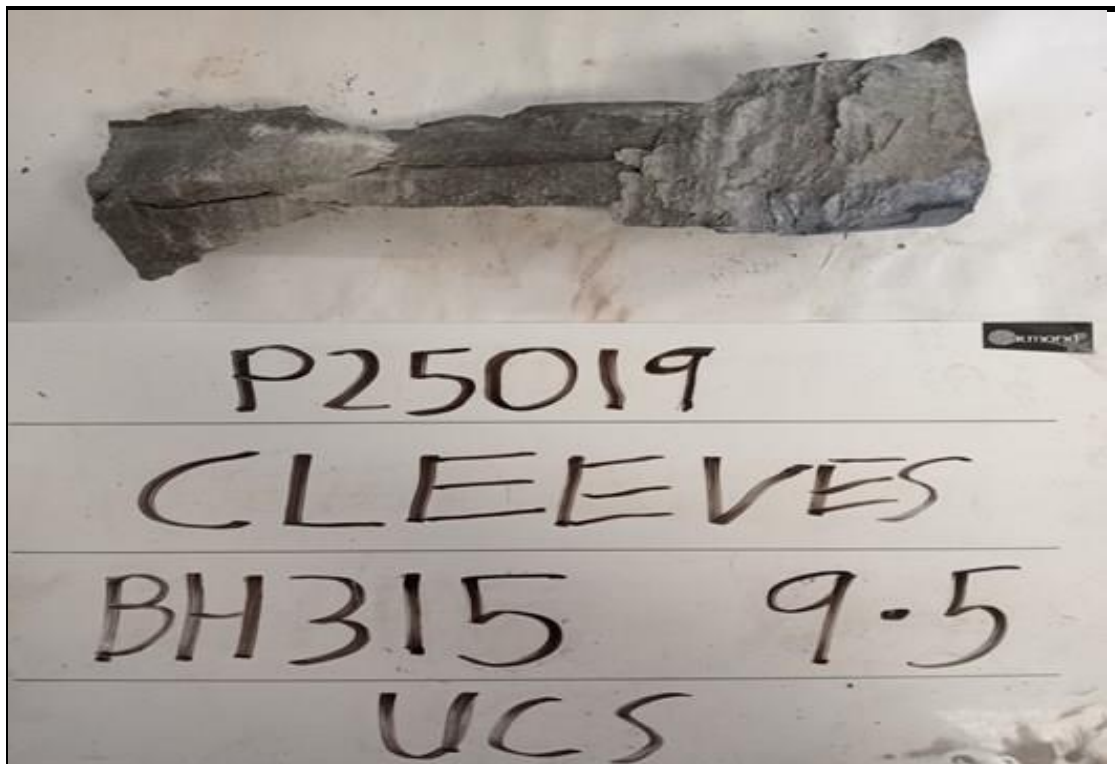
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH315**
Depth: **9.5** m
Rock Type **Limestone**
Diameter **78.5** mm
Length **195.25** mm
Bulk Density **2.72** Mg/m3

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **264.00** Seconds

Load at Failure, P **752.3** kN

Stress at Failure **153.55** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

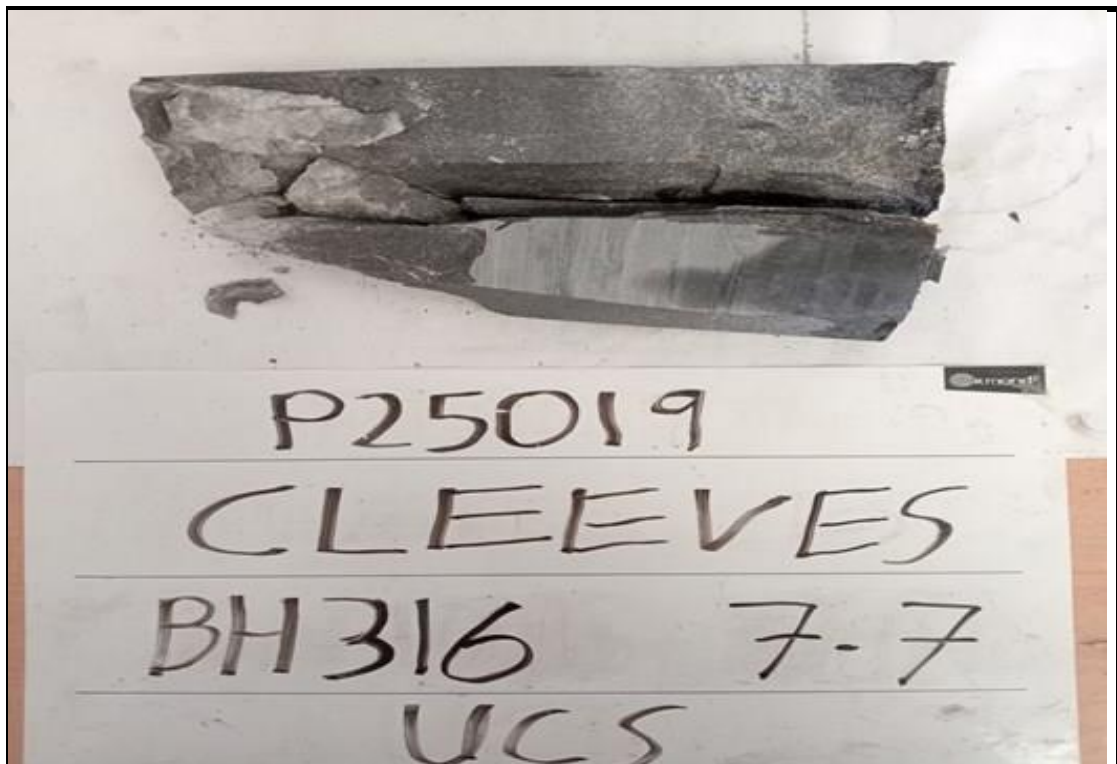
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **BH316**
Depth: **7.7** m
Rock Type **Limestone**
Diameter **78.5** mm
Length **201.25** mm
Bulk Density **2.69** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **195.00** Seconds

Load at Failure, P **553.2** kN

Stress at Failure **112.95** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

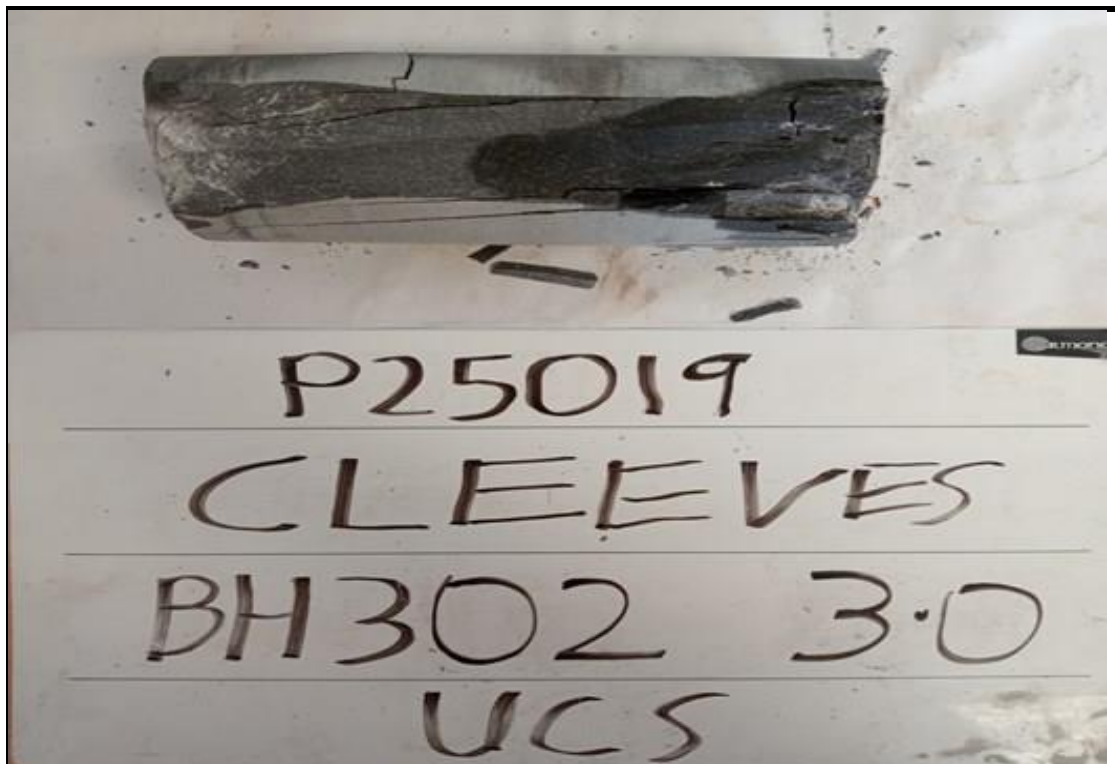
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **RC302**
Depth: **3** m
Rock Type **Limestone**
Diameter **79** mm
Length **154.75** mm
Bulk Density **2.68** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **192.00** Seconds

Load at Failure, P **541.1** kN

Stress at Failure **110.45** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

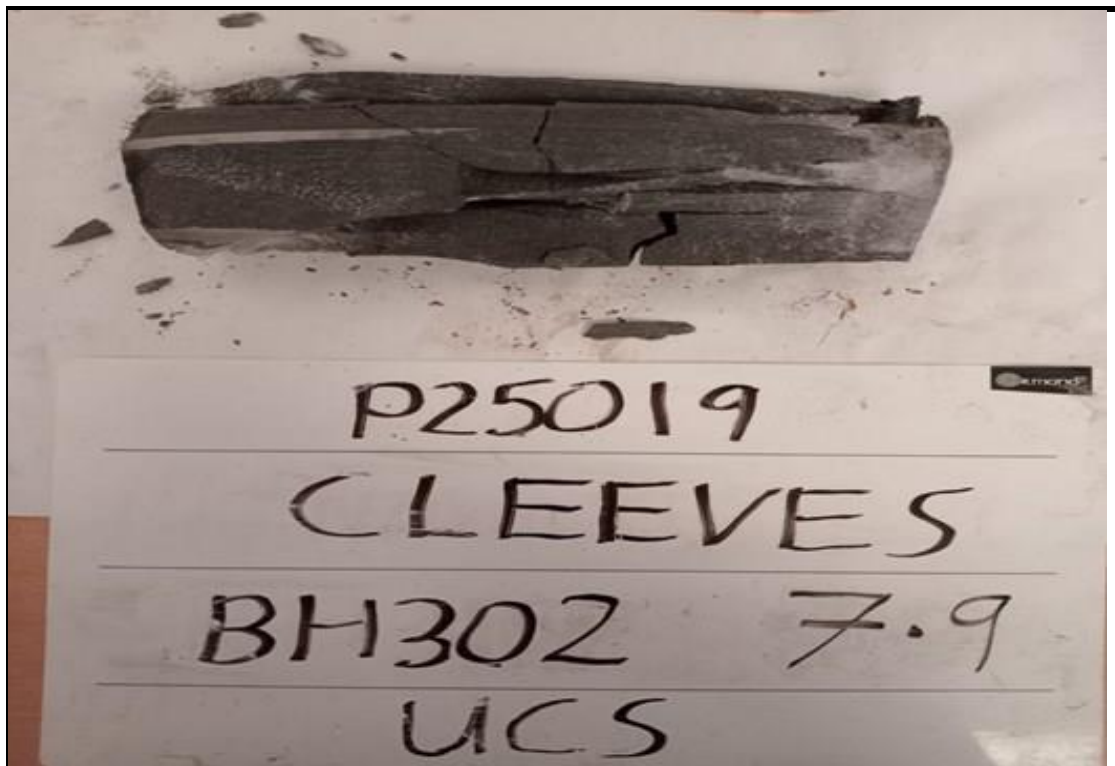
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **RC302**
Depth: **7.9** m
Rock Type **Limestone**
Diameter **79** mm
Length **196.5** mm
Bulk Density **2.68** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **155.00** Seconds

Load at Failure, P **456** kN

Stress at Failure **93.05** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

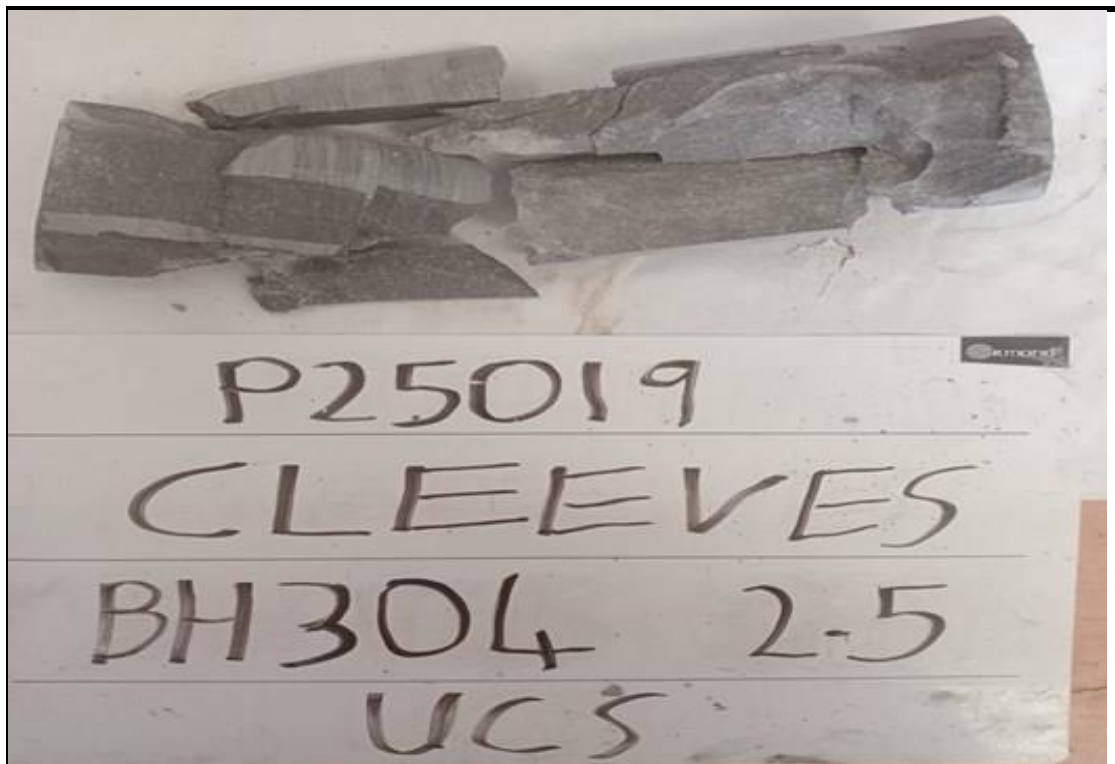
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **RC304**
Depth: **2.5** m
Rock Type **Limestone**
Diameter **79** mm
Length **209.75** mm
Bulk Density **2.73** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **214.00** Seconds

Load at Failure, P **644.1** kN

Stress at Failure **131.45** MPa



Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

Unconfined Compressive Strength, UCS

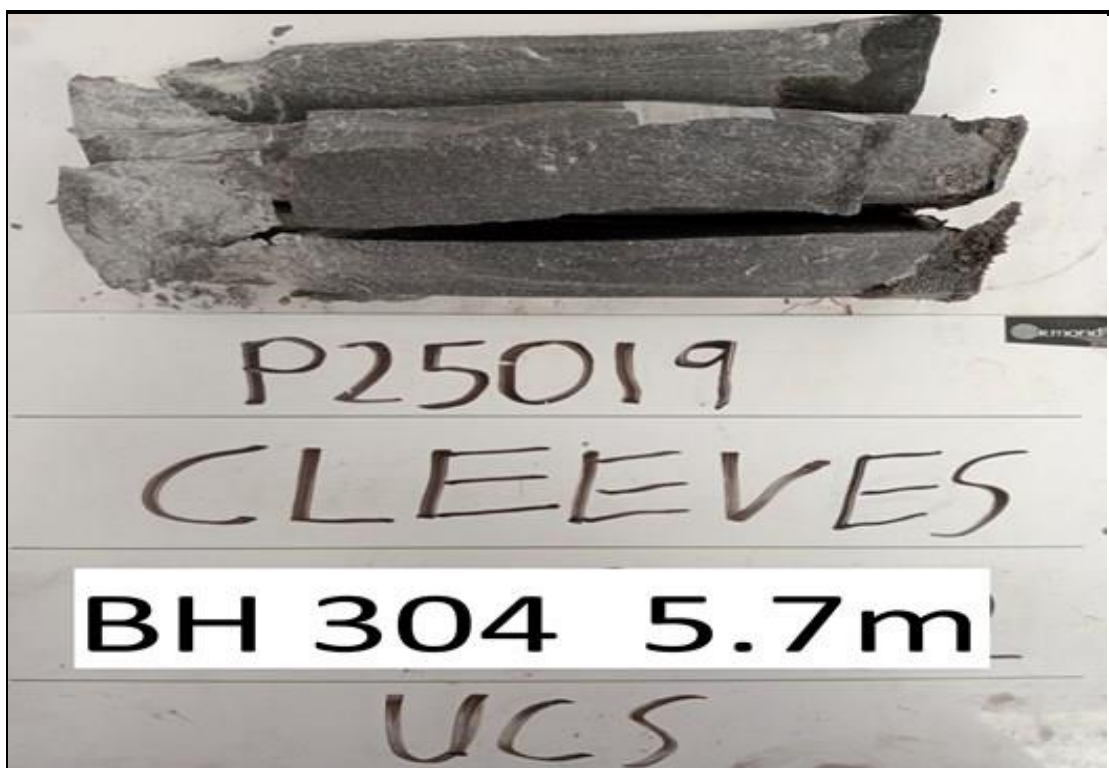
Job Name **Cleeves Riverside Quarter Development - Ground Investigation**
Job Number **P25019**

Borehole: **RC304**
Depth: **5.7** m
Rock Type **Limestone**
Diameter **78** mm
Length **197.5** mm
Bulk Density **2.73** Mg/m³

Orientation of axis of loading **Parallel**
Stress rate **3.00** kN/s
Test Duration **155.00** Seconds

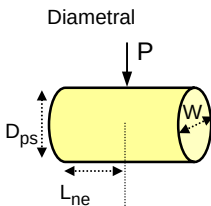
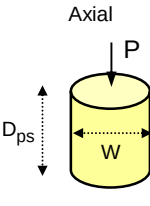
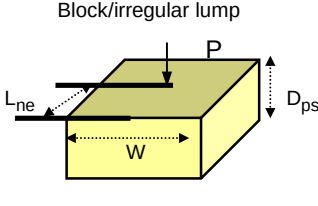
Load at Failure, P **427** kN

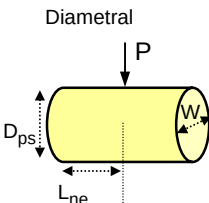
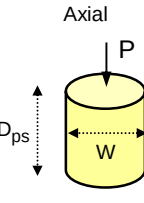
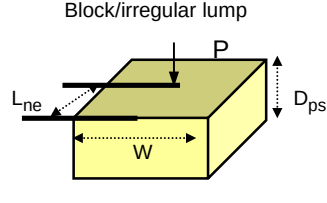
Stress at Failure **89.45** MPa

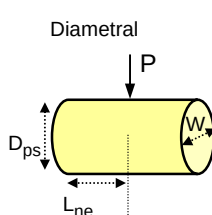
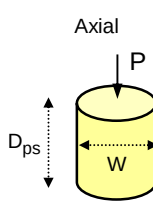
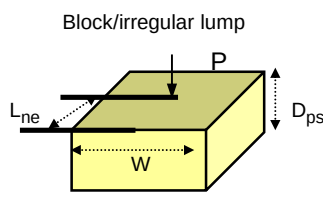


Mode of Failure

Test performed in accordance with ISRM Suggested Methods : 2007,

						Point Load Strength Index Tests Summary of Results												
Project No. P25019						Project Name Cleaves Riverside Quarter Development - Ground Investigation												
Borehole No.	Sample			Specimen		Rock Type and Test condition	Test Type see ISRM		Failure Valid (Y/N)	Dimensions				Force P kN	Equivalent diameter, De mm	Point Load Strength Index		Remarks (including water content if measured)
	Depth	Ref.	Type	Ref.	Depth		Type (D, A, I, B)	Direction (L, P or U)		Lne	W	Dps	Dps'			Is	Is(50)	
	m				m					mm	mm	mm	mm			MPa	MPa	
BH301	5.30		C		5.30	Limestone	A	U	YES	31.0	79.0	78.0	65.0	14.4	80.9	2.2	2.7	Planar Rough
BH301	6.50		C		6.50	Limestone	A	U	YES	36.0	79.0	70.0	67.0	17.5	82.1	2.6	3.2	Planar Rough
BH301	9.00		C		9.00	Limestone	A	U	YES	33.0	79.0	68.0	65.0	17.2	80.9	2.6	3.3	Planar Rough
BH301	10.10		C		10.10	Limestone	A	U	YES	33.0	79.0	74.0	64.0	19.1	80.2	3.0	3.7	Planar Rough
BH303	2.40		C		2.40	Limestone	A	U	YES	36.0	79.0	42.0	37.0	12.8	61.0	3.5	3.8	Planar Rough
BH303	3.20		C		3.20	Limestone	A	U	YES	15.0	79.0	39.0	36.0	11.5	60.2	3.2	3.4	Planar Rough
BH303	5.70		C		5.70	Limestone	I	U	YES	41.0	79.0	37.0	33.0	12.5	57.6	3.8	4.0	Planar Rough
BH303	7.60		C		7.60	Limestone	A	U	YES	35.0	76.0	74.0	66.0	27.0	79.9	4.2	5.2	Planar Rough
BH305	8.50		C		8.50	Limestone	A	U	YES	34.0	79.0	49.0	37.0	18.9	61.0	5.1	5.6	Planar Rough
BH305	14.80		C		14.80	Limestone	A	U	YES	34.0	79.0	67.0	64.0	19.8	80.2	3.1	3.8	Planar Rough
BH305	17.10		C		17.10	Limestone	D	U	YES	22.0	79.0	79.0	78.0	10.3	78.5	1.7	2.1	Undulating Rough
BH305	19.00		C		19.00	Limestone	A	U	YES	37.0	79.0	62.0	57.0	10.1	75.7	1.8	2.1	Planar Rough
BH306	3.80		C		3.80	Limestone	A	U	YES	37.0	79.0	62.0	57.0	10.1	75.7	1.8	2.1	Planar Rough
BH306	5.40		C		5.40	Limestone	D	U	YES	63.0	79.0	79.0	65.0	21.7	71.7	4.2	5.0	Planar Rough
BH306	5.80		C		5.80	Limestone	A	U	YES	34.0	79.0	62.0	55.0	12.6	74.4	2.3	2.7	Planar Rough
BH306	6.90		C		6.90	Limestone	A	U	YES	30.0	79.0	36.0	29.0	14.8	54.0	5.1	5.2	Planar Rough
BH307	4.90		C		4.90	Limestone	I	U	YES	40.0	70.0	44.0	40.0	12.5	59.7	3.5	3.8	Planar Rough
BH307	6.40		C		6.40	Limestone	A	U	YES	30.0	79.0	47.0	44.0	16.4	66.5	3.7	4.2	Planar Rough
BH307	9.90		C		9.90	Limestone	A	U	YES	30.0	78.0	29.0	25.0	10.2	49.8	4.1	4.1	Planar Rough
BH308	5.50		C		5.50	Limestone	D	U	YES	42.0	79.0	79.0	69.0	17.4	73.8	3.2	3.8	Planar Rough
Test Type D - Diametral, A - Axial, I - Irregular Lump, B - Block Direction L - parallel to planes of weakness P - perpendicular to planes of weakness U - unknown or random Dimensions Dps - Distance between platens (platen separation) Dps' - at failure (see ISRM note 6) Lne - Length from platens to nearest free end W - Width of shortest dimension perpendicular to load, P Diametral  Axial  Block/irregular lump 																		
Test performed in accordance with ISRM Suggested Methods : 2007, unless noted otherwise Detailed legend for test and dimensions, based on ISRM, is shown above. Size factor, F = (De/50)0.45 for all tests.										Date Printed 25/06/2025		Approved By Vasco		Table sheet 1 1				

						Point Load Strength Index Tests Summary of Results												
Project No. P25019						Project Name Cleaves Riverside Quarter Development - Ground Investigation												
Borehole No.	Sample			Specimen		Rock Type and Test condition	Test Type see ISRM		Failure Valid (Y/N)	Dimensions				Force P kN	Equivalent diameter, De mm	Point Load Strength Index		Remarks (including water content if measured)
	Depth	Ref.	Type	Ref.	Depth		Type (D, A, I, B)	Direction (L, P or U)		Lne	W	Dps	Dps'			Is	Is(50)	
	m				m					mm	mm	mm	mm			MPa	MPa	
BH308	7.60		C		7.60	Limestone	A	U	YES	34.0	79.0	45.0	40.0	10.8	63.4	2.7	3.0	Planar Rough
BH308	9.35		C		9.35	Limestone	A	U	YES	40.0	79.0	55.0	45.0	19.3	67.3	4.3	4.9	Planar Rough
BH309	5.10		C		5.10	Limestone	A	U	YES	45.0	79.0	49.0	38.0	10.2	61.8	2.7	2.9	Planar Rough
BH309	7.50		C		7.50	Limestone	D	U	YES	70.0	79.0	79.0	62.0	17.5	70.0	3.6	4.2	Planar Rough
BH309	8.90		C		8.90	Limestone	A	U	YES	36.0	79.0	93.0	84.0	28.0	91.9	3.3	4.4	Planar Rough
BH309*	5.20		C		5.20	Limestone	D	U	YES	49.0	76.0	76.0	64.0	18.5	69.7	3.8	4.4	Undulating Rough
BH310	2.60		C		2.60	Limestone	A	U	YES	38.0	79.0	78.0	74.0	11.4	86.3	1.5	2.0	Planar Rough
BH310	4.30		C		4.30	Limestone	A	U	YES	40.0	79.0	50.0	46.0	18.1	68.0	3.9	4.5	Planar Rough
BH310	6.10		C		6.10	Limestone	D	U	YES	57.0	79.0	79.0	73.0	21.7	75.9	3.8	4.5	Planar Rough
BH310	7.80		C		7.80	Limestone	A	U	YES	33.0	79.0	49.0	45.0	15.6	67.3	3.4	3.9	Planar Rough
BH311	9.40		C		9.40	Limestone	A	U	YES	32.0	79.0	72.0	65.0	25.5	80.9	3.9	4.8	Planar Rough
BH311	10.50		C		10.50	Limestone	A	U	YES	39.0	79.0	39.0	32.0	15.7	56.7	4.9	5.1	Planar Rough
BH312	6.40		C		6.40	Limestone	A	U	YES	37.0	77.0	89.0	84.0	32.5	90.7	3.9	5.2	Planar Rough
BH312	7.10		C		7.10	Limestone	A	U	YES	34.0	79.0	62.0	59.0	18.6	77.0	3.1	3.8	Planar Rough
BH312	7.40		C		7.40	Limestone	A	U	YES	39.0	79.0	76.0	61.0	14.6	78.3	2.4	2.9	Planar Rough
BH312	9.30		C		9.30	Limestone	A	U	YES	38.0	79.0	69.0	59.0	23.3	77.0	3.9	4.8	Planar Rough
BH314	5.70		C		5.70	Limestone	I	U	YES	51.0	79.0	37.0	33.0	14.4	57.6	4.4	4.6	Planar Rough
BH314	6.30		C		6.30	Limestone	A	U	YES	36.0	79.0	87.0	79.0	24.0	89.1	3.0	3.9	Planar Rough
BH314	8.00		C		8.00	Limestone	A	U	YES	39.0	76.0	63.0	59.0	11.1	75.6	1.9	2.3	Planar Rough
BH314	9.40		C		9.40	Limestone	A	U	YES	38.0	76.0	63.0	59.0	11.9	75.6	2.1	2.5	Planar Rough
Test Type D - Diametral, A - Axial, I - Irregular Lump, B - Block Direction L - parallel to planes of weakness P - perpendicular to planes of weakness U - unknown or random Dimensions Dps - Distance between platens (platen separation) Dps' - at failure (see ISRM note 6) Lne - Length from platens to nearest free end W - Width of shortest dimension perpendicular to load, P Diametral  Axial  Block/irregular lump 																		
Test performed in accordance with ISRM Suggested Methods : 2007, unless noted otherwise Detailed legend for test and dimensions, based on ISRM, is shown above. Size factor, F = (De/50)0.45 for all tests.										Date Printed 25/06/2025		Approved By Vasco		Table 1 sheet 2				

						Point Load Strength Index Tests Summary of Results												
Project No. P25019						Project Name Cleaves Riverside Quarter Development - Ground Investigation												
Borehole No.	Sample			Specimen		Rock Type and Test condition	Test Type see ISRM		Failure Valid (Y/N)	Dimensions				Force P kN	Equivalent diameter, De mm	Point Load Strength Index		Remarks (including water content if measured)
	Depth m	Ref.	Type	Ref.	Depth m		Type (D, A, I, B)	Direction (L, P or U)		Lne mm	W mm	Dps mm	Dps' mm			Is MPa	Is(50) MPa	
BH315	4.50		C		4.50	Limestone	A	U	YES	39.0	74.0	71.0	63.0	21.2	77.0	3.6	4.3	Planar Rough
BH315	5.70		C		5.70	Limestone	A	U	YES	37.0	79.0	51.0	46.0	18.1	68.0	3.9	4.5	Planar Rough
BH315	7.50		C		7.50	Limestone	A	U	YES	35.0	79.0	86.0	81.0	37.3	90.3	4.6	6.0	Planar Rough
BH315	8.00		C		8.00	Limestone	A	U	YES	42.0	79.0	82.0	71.0	21.0	84.5	2.9	3.7	Planar Rough
BH315	9.80		C		9.80	Limestone	A	U	YES	38.0	79.0	78.0	75.0	21.9	86.9	2.9	3.7	Planar Rough
BH316	4.50		C		4.50	Limestone	A	U	YES	38.0	79.0	48.0	46.0	8.4	68.0	1.8	2.1	Planar Rough
BH316	5.30		C		5.30	Limestone	D	U	YES	43.0	76.0	68.0	60.0	17.6	67.5	3.9	4.4	Undulating Rough
BH316	7.40		C		7.40	Limestone	A	U	YES	34.0	79.0	79.0	75.0	11.2	86.9	1.5	1.9	Undulating Rough
BH316	8.50		C		8.50	Limestone	A	U	YES	30.0	79.0	33.0	31.0	10.3	55.8	3.3	3.5	Planar Rough
BH302	2.20		C		2.20	Limestone	A	U	YES	40.0	79.0	53.0	48.0	15.6	69.5	3.2	3.7	Planar Rough
BH302	4.00		C		4.00	Limestone	D	U	YES	34.0	79.0	78.0	69.0	17.2	73.8	3.2	3.8	Planar Rough
BH302	5.10		C		5.10	Limestone	A	U	YES	35.0	79.0	74.0	67.0	19.7	82.1	2.9	3.7	Planar Rough
BH302	7.30		C		7.30	Limestone	I	U	YES	50.0	76.0	47.0	45.0	13.2	66.0	3.0	3.4	Planar Rough
BH302	10.00		C		10.00	Limestone	A	U	YES	35.0	77.0	29.0	25.0	5.7	49.5	2.3	2.3	Planar Rough
BH304	3.90		C		3.90	Limestone	A	U	YES	38.0	76.0	68.0	62.0	17.1	77.5	2.8	3.5	Planar Rough
BH304	4.90		C		4.90	Limestone	A	U	YES	31.0	79.0	23.0	21.0	7.9	46.0	3.7	3.6	Planar Rough
BH304	7.10		C		7.10	Limestone	A	U	YES	38.0	76.0	90.0	84.0	21.6	90.2	2.7	3.5	Planar Rough
BH304	8.30		C		8.30	Limestone	A	U	YES	80.0	77.0	79.0	74.0	24.0	85.2	3.3	4.2	Planar Rough
Test Type D - Diametral, A - Axial, I - Irregular Lump, B - Block Direction L - parallel to planes of weakness P - perpendicular to planes of weakness U - unknown or random Dimensions Dps - Distance between platens (platen separation) Dps' - at failure (see ISRM note 6) Lne - Length from platens to nearest free end W - Width of shortest dimension perpendicular to load, P										Diametral  Axial  Block/irregular lump 								
Test performed in accordance with ISRM Suggested Methods : 2007, unless noted otherwise Detailed legend for test and dimensions, based on ISRM, is shown above. Size factor, F = (De/50)0.45 for all tests.										Date Printed 25/06/2025		Approved By Vasco		Table 1 sheet 3				

Additional Monitoring Results (PGL, 2025)

BH NO.	Date	Flow (l/h)	CH4 %	C02 %	O2 %	Balance %	CO (ppm)	H2S (ppm)
BH305	07/08/2025	0	0.1	3.2	16.8	80	0	0
BH306	07/08/2025	0	0.1	3.3	18.1	78.6	1	0
BH307	07/08/2025	0	0.1	5.8	13.6	80.5	1	0
BH308	07/08/2025	0	0.1	2.7	17.7	79.5	1	0
BH312	07/08/2025	0	0.1	2.2	17.5	80.2	0	0
BH305	15/08/2025	0	0.1	3.2	17.5	79.2	0	0
BH306	15/08/2025	0	0.1	2.5	18.6	78.8	1	0
BH307	15/08/2025	0	0.1	5.3	14.5	80.1	1	0
BH308	15/08/2025	0	0.1	1.5	18.2	80.2	1	0
BH312	15/08/2025	0	0.1	1.9	16.7	81.3	0	0
BH305	26/08/2025	0	0.1	3.3	18.5	78.1	0	0
BH306	26/08/2025	0	0.1	1.8	19.5	78.6	1	0
BH307	26/08/2025	0	0.1	4.9	17.9	77.1	1	0
BH308	26/08/2025	0	0.1	1.2	19.5	79.2	0	0
BH312	26/08/2025	0	0.1	2.2	16.8	80.9	0	0
BH305	01/09/2025	0	0.1	3.3	18.5	78.1	0	0
BH306	01/09/2025	0	0.1	1.8	19.5	78.6	1	0
BH307	01/09/2025	0	0.1	4.9	17.9	77.1	1	0
BH308	01/09/2025	0	0.1	1.2	19.5	79.2	0	0
BH312	01/09/2025	0	0.1	1.6	16.1	82.2	0	0
BH305	16/09/2025	0	0.1	1.8	19.1	79	0	0
BH306	16/09/2025	0	0.1	2.2	18.5	79.2	1	0
BH307	16/09/2025	0	0.1	5.8	14.8	79.3	1	0
BH308	16/09/2025	0	0.1	2.7	18.1	79.1	1	0
BH312	16/09/2025	0	0.1	1.1	17	81.8	1	0
BH305	22/09/2025	0	0.1	2.5	18.9	78.5	0	0
BH306	22/09/2025	0	0.1	1.9	18.8	79.2	1	0
BH307	22/09/2025	0	0.1	5.3	15.2	79.4	1	0
BH308	22/09/2025	0	0.1	2.4	18.6	78.9	1	0
BH312	22/09/2025	0	0.1	1.4	16.8	81.7	1	0

CH4 lel %	CH4 peak	Baro pressure (mb)	Relative pressure (mb)
1	0.1	1012	-0.07
1	0.1	1012	1.1
1	0.1	1012	1.8
1	0.1	1012	1.8
1	0.1	1013	-0.02
1	0.1	1007	0.04
1	0.1	1007	0.04
1	0.1	1007	0.05
1	0.1	1007	0.05
1	0.1	1007	0.06
1	0.1	1008	-0.06
1	0.1	1008	-0.06
1	0.1	1008	-0.05
1	0.1	1008	-0.05
1	0.1	1008	-0.07
1	0.1	1000	-0.09
1	0.1	1000	-0.09
1	0.1	1000	-0.09
1	0.1	1000	-0.09
1	0.1	1000	-0.23
1	0.1	1020	-0.09
1	0.1	1020	-0.07
1	0.1	1020	1.2
1	0.1	1020	-0.04
1	0.1	1020	-0.22
1	0.1	1028	0.02
1	0.1	1028	0.05
1	0.1	1028	0.04
1	0.1	1028	0.05
1	0.1	1028	0.06

Eurofins Chemtest Ltd
Attn. Mr. J. King
Depot Road 11
GB-CB8 0AL NEWMARKET
GROOT BRITTANIE

Your reference : 25-17339
Our reference : Project 1935760
Validation Ref. : 1935760_certificaat_v1
Verificationcode : KGNT-DWAQ-TAAB-KTNA

Amsterdam, 12 June 2025

I hereby enclose the results of the laboratory tests that have been carried out on your request on the samples that you supplied to us.

I would like to point out to you that the results apply only to the samples supplied, such as these were presented for testing.

The research, with the exception of any outsourced research, was carried out by Eurofins Omegam. Information about the used analysis method(s) can be found in our customer portal My Lab under "Info and Docs".

Do also note that the enclosed report may not be copied or reproduced in any way except in its entirety. I trust that we have completed your order as agreed and to your full satisfaction. If you have any questions reading this report, then please don't hesitate to contact our Customer Service.

Yours sincerely,
On behalf of Eurofins Omegam,



BSc J. Tukker
Production manager

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CERTIFICATE

Project code : 1935760
 Your Project Description : 25-17339
 Client : Eurofins Chemtest Ltd

Your Sample identification

8819443 = 1977920 BH312

8819464 = 1977921 BH302

8819465 = 1977922 BH309

Client sampling date	:	20/05/2025	20/05/2025	20/05/2025
Date of receipt	:	28/05/2025	28/05/2025	28/05/2025
Startdate	:	28/05/2025	28/05/2025	28/05/2025
Reference number	:	8819443	8819464	8819465
Your Matrix	:	Water	Water	Water

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS

Perfluorinated carboxylic acids:

PFBA	µg/l	< 0,02	0,07	< 0,02
PFPeA	µg/l	< 0,02	0,29	< 0,02
PFHxA	µg/l	< 0,02	0,14	< 0,02
PFHpA	µg/l	< 0,02	0,04	< 0,02
PFOA linear	µg/l	< 0,02	< 0,02	< 0,02
PFOA branched	µg/l	< 0,02	< 0,02	< 0,02
PFNA	µg/l	< 0,02	< 0,02	< 0,02
PFDA	µg/l	< 0,02	< 0,02	< 0,02
PFUnDA	µg/l	< 0,02	< 0,02	< 0,02
PFDoDA	µg/l	< 0,02	< 0,02	< 0,02
PFTTrDA	µg/l	< 0,02	< 0,02	< 0,02
PFTeDA	µg/l	< 0,02	< 0,02	< 0,02
PFHxDA	µg/l	< 0,02	< 0,02	< 0,02
PFODA	µg/l	< 0,02	< 0,02	< 0,02

Perfluorinated sulfonic acids:

PFBS	µg/l	< 0,02	< 0,02	< 0,02
PFPeS	µg/l	< 0,02	< 0,02	< 0,02
PFHxS	µg/l	< 0,02	< 0,02	< 0,02
PFHpS	µg/l	< 0,02	< 0,02	< 0,02
PFOS linear	µg/l	< 0,02	< 0,02	< 0,02
PFOS branched	µg/l	< 0,02	< 0,02	< 0,02
PFDS	µg/l	< 0,02	< 0,02	< 0,02

Perfluorinated alkyl substances - precursors:

4:2 FTS	µg/l	< 0,05	< 0,05	< 0,05
6:2 FTS	µg/l	< 0,05	< 0,05	< 0,05
8:2 FTS	µg/l	< 0,1	< 0,1	< 0,1
10:2 FTS	µg/l	< 0,05	< 0,05	< 0,05
PFOSA	µg/l	< 0,02	< 0,02	< 0,02

Perfluorinated alkyl substances - remainder:

HPFHpA	µg/l	< 0,5	< 0,5	< 0,5
4H-PFUnDA	µg/l	< 0,05	< 0,05	< 0,05
8:2 FTUCA	µg/l	< 0,05	< 0,05	< 0,05
9CI-PF3ONS (F53-B)	µg/l	< 0,02	< 0,02	< 0,02
ADONA	µg/l	< 0,02	< 0,02	< 0,02
EtFOSA	µg/l	< 0,05	< 0,05	< 0,05
EtFOSAA	µg/l	< 0,02	< 0,02	< 0,02
MeFBSA	µg/l	< 0,02	< 0,02	< 0,02
MeFOSAA	µg/l	< 0,1	< 0,1	< 0,1
P37DMOA	µg/l	< 0,5	< 0,5	< 0,5
PFBSA	µg/l	< 0,02	< 0,02	< 0,02
MeFOSA	µg/l	< 0,05	< 0,05	< 0,05
MeFBSAA	µg/l	< 0,02	< 0,02	< 0,02
8:2 DiPAP	µg/l	< 0,1	< 0,1	< 0,1
HFPO-DA (GenX)	µg/l	< 0,02	< 0,02	< 0,02

CERTIFICATE

Project code : 1935760
Your Project Description : 25-17339
Client : Eurofins Chemtest Ltd

Your Sample identification

8819443 = 1977920 BH312

8819464 = 1977921 BH302

8819465 = 1977922 BH309

Client sampling date	:	20/05/2025	20/05/2025	20/05/2025
Date of receipt	:	28/05/2025	28/05/2025	28/05/2025
Startdate	:	28/05/2025	28/05/2025	28/05/2025
Reference number	:	8819443	8819464	8819465
Your Matrix	:	Water	Water	Water

som PFOA	µg/l	0,03	0,03	0,03
sum PFOS	µg/l	0,03	0,03	0,03

CERTIFICATE

Project code : 1935760
 Your Project Description : 25-17339
 Client : Eurofins Chemtest Ltd

Your Sample identification

8819467 = 1977923 TRIP BLANK
 8819469 = 1977924 FIELD BLANK
 8819470 = 1977925 EQUIPMENT BLANK

Client sampling date	:	20/05/2025	20/05/2025	20/05/2025
Date of receipt	:	28/05/2025	28/05/2025	28/05/2025
Startdate	:	28/05/2025	28/05/2025	28/05/2025
Reference number	:	8819467	8819469	8819470
Your Matrix	:	Water	Water	Water

Organic compounds - per- and polyfluoroalkylsubstances (PFAS) HPLC-MS/MS

Perfluorinated carboxylic acids:

PFBA	µg/l	< 0,02	< 0,02	< 0,02
PFPeA	µg/l	< 0,02	< 0,02	< 0,02
PFHxA	µg/l	< 0,02	< 0,02	< 0,02
PFHpA	µg/l	< 0,02	< 0,02	< 0,02
PFOA linear	µg/l	< 0,02	< 0,02	< 0,02
PFOA branched	µg/l	< 0,02	< 0,02	< 0,02
PFNA	µg/l	< 0,02	< 0,02	< 0,02
PFDA	µg/l	< 0,02	< 0,02	< 0,02
PFUnDA	µg/l	< 0,02	< 0,02	< 0,02
PFDoDA	µg/l	< 0,02	< 0,02	< 0,02
PFTTrDA	µg/l	< 0,02	< 0,02	< 0,02
PFTeDA	µg/l	< 0,02	< 0,02	< 0,02
PFHxDA	µg/l	< 0,02	< 0,02	< 0,02
PFODA	µg/l	< 0,02	< 0,02	< 0,02

Perfluorinated sulfonic acids:

PFBS	µg/l	< 0,02	< 0,02	< 0,02
PFPeS	µg/l	< 0,02	< 0,02	< 0,02
PFHxS	µg/l	< 0,02	< 0,02	< 0,02
PFHpS	µg/l	< 0,02	< 0,02	< 0,02
PFOS linear	µg/l	< 0,02	< 0,02	< 0,02
PFOS branched	µg/l	< 0,02	< 0,02	< 0,02
PFDS	µg/l	< 0,02	< 0,02	< 0,02

Perfluorinated alkyl substances - precursors:

4:2 FTS	µg/l	< 0,05	< 0,05	< 0,05
6:2 FTS	µg/l	< 0,05	< 0,05	< 0,05
8:2 FTS	µg/l	< 0,1	< 0,1	< 0,1
10:2 FTS	µg/l	< 0,05	< 0,05	< 0,05
PFOSA	µg/l	< 0,02	< 0,02	< 0,02

Perfluorinated alkyl substances - remainder:

HPFHpA	µg/l	< 0,5	< 0,5	< 0,5
4H-PFUnDA	µg/l	< 0,05	< 0,05	< 0,05
8:2 FTUCA	µg/l	< 0,05	< 0,05	< 0,05
9CI-PF3ONS (F53-B)	µg/l	< 0,02	< 0,02	< 0,02
ADONA	µg/l	< 0,02	< 0,02	< 0,02
EtFOSA	µg/l	< 0,05	< 0,05	< 0,05
EtFOSAA	µg/l	< 0,02	< 0,02	< 0,02
MeFBSA	µg/l	< 0,02	< 0,02	< 0,02
MeFOSAA	µg/l	< 0,1	< 0,1	< 0,1
P37DMOA	µg/l	< 0,5	< 0,5	< 0,5
PFBSA	µg/l	< 0,02	< 0,02	< 0,02
MeFOSA	µg/l	< 0,05	< 0,05	< 0,05
MeFBSAA	µg/l	< 0,02	< 0,02	< 0,02
8:2 DiPAP	µg/l	< 0,1	< 0,1	< 0,1
HFPO-DA (GenX)	µg/l	< 0,02	< 0,02	< 0,02

C E R T I F I C A T E

Project code : 1935760
Your Project Description : 25-17339
Client : Eurofins Chemtest Ltd

Your Sample identification
8819467 = 1977923 TRIP BLANK
8819469 = 1977924 FIELD BLANK
8819470 = 1977925 EQUIPMENT BLANK

Client sampling date	:	20/05/2025	20/05/2025	20/05/2025
Date of receipt	:	28/05/2025	28/05/2025	28/05/2025
Startdate	:	28/05/2025	28/05/2025	28/05/2025
Reference number	:	8819467	8819469	8819470
Your Matrix	:	Water	Water	Water

som PFOA	µg/l	0,03	0,03	0,03
sum PFOS	µg/l	0,03	0,03	0,03

C E R T I F I C A T E

Project code	: 1935760
Your Project Description	: 25-17339
Client	: Eurofins Chemtest Ltd

Notes related to analyses

General comments

The following information has been provided by the client if applicable:

Project description, Sample identificaton, Client sampling date, Client Matrix, Sample depth, Pot number (Barcode), Field data, Field observations and sampling data. The client sampling date can affect the validity of the results.

Quantification of branched PFOS/POA is based on DIN 38414-14.

Summation of concentrations for group parameters

Summation is calculated according to AS3000 protocol, paragraph 2.5.2 and appendix 3.

C E R T I F I C A T E

Project code : 1935760
Your Project Description : 25-17339
Client : Eurofins Chemtest Ltd

Appendix Index PFAS

PFAS component	Full name PFAS component
10:2 FTS	10:2 FTS (10:2 Fluorotelomer sulfonic acid)
4:2 FTS	4:2 FTS (4:2 Fluorotelomer sulfonic acid)
4H-PFUnDA	4H-PFUnDA (2H,2H,3H,3H-Perfluoroundecanoic acid)
6:2 FTS	6:2 FTS (6:2 Fluorotelomer sulfonic acid)
8:2 DiPAP	8:2 DiPAP (8:2 Fluorotelomer phosphate diester)
8:2 FTS	8:2 FTS (8:2 Fluorotelomer sulfonic acid)
8:2 FTUCA	8:2 FTUCA (8:2 Fluorotelomer unsaturated carboxylic acid)
9Cl-PF3ONS (F53-B)	9Cl-PF3ONS (F53-B) (9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid)
ADONA	ADONA (ammonium 4,8-dioxa-3H-perfluorononanoate)
EtFOSA	EtFOSA (N-ethyl perfluorooctanesulfonamide)
EtFOSAA	EtFOSAA (perfluorooctanesulfonylamide(N-ethyl)acetate)
HPFHpA	HPFHpA (7H-perfluoroheptanoic acid)
MeFBSA	MeFBSA (N-methylperfluorobutanesulfonylamide)
MeFBSAA	MeFBSAA (perfluorobutanesulfonylamide(N-methyl)acetate)
MeFOSA	MeFOSA (N-methyl perfluorooctanesulfonamide)
MeFOSAA	MeFOSAA (N-methyl perfluorooctanesulfonamidoacetic acid)
P37DMOA	P37DMOA (perfluoro-3,7-dimethyloctanoic acid)
PFBA	PFBA (perfluorobutanoic acid)
PFBS	PFBS (perfluorobutanesulfonic acid)
PFBSA	PFBSA (perfluorobutanesulfonamide)
PFDA	PFDA (perfluorodecanoic acid)
PFDoDA	PFDoDA (perfluorododecanoic acid)
PFDS	PFDS (perfluorodecanesulfonic acid)
PFHhA	PFHhA (perfluoroheptanoic acid)
PFHhS	PFHhS (perfluoroheptanesulfonic acid)
PFHxA	PFHxA (perfluorohexanoic acid)
PFHxDA	PFHxDA (perfluorohexadecanoic acid)
PFHxS	PFHxS (perfluorohexanesulfonic acid)
PFNA	PFNA (perfluorononanoic acid)
PFOA branched	PFOA branched (perfluorooctanoic acid)
PFOA linear	PFOA linear (perfluorooctanoic acid)
PFODA	PFODA (perfluorooctadecanoic acid)
PFOS branched	PFOS branched (perfluorooctanesulfonic acid)
PFOS linear	PFOS linear (perfluorooctanesulfonic acid)
PFOSA	PFOSA (perfluorooctanesulfonamide)
PFPeA	PFPeA (perfluoropentanoic acid)
PFPeS	PFPeS (perfluoropentanesulfonic acid)
PFTeDA	PFTeDA (perfluorotetradecanoic acid)
PFTTrDA	PFTTrDA (perfluorotridecanoic acid)
PFUnDA	PFUnDA (perfluoroundecanoic acid)



Final Report

Report No.: 25-17285-1

Initial Date of Issue: 01-Jul-2025

Re-Issue Details:

Client *Priority Geotechnical Ltd*

Client Address: *Unit 12
Owenacurra Business Park
Midleton
County Cork
Ireland*

Contact(s): *Colette Kelly*

Project *P25019*

Quotation No.: *Q25-38372*

Date Received: 23-May-2025

Order No.: 16776

Date Instructed: 23-May-2025

No. of Samples: 12

Turnaround (Wkdays): 5

Results Due: 30-May-2025

Date Approved: 01-Jul-2025

Approved By:

Details: Simon Wicks, Specialist Chemist

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Water

Project: P25019

Client: Priority Geotechnical Ltd		Chemtest Job No.:		25-17285	25-17285	25-17285	25-17285	25-17285	25-17285	25-17285	25-17285	25-17285
Quotation No.: Q25-38372		Chemtest Sample ID.:		1977763	1977764	1977765	1977766	1977767	1977768	1977769		
		Client Reference:		BH311	BH312	BH314	BH302	BH310	SW	OUT FLOW		
		Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER	WATER		
		Sample Sub Type:										
		Date Sampled:		20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
pH at 20C		U	1010		4.0	7.7	8.0	7.8	8.0	8.1	8.4	8.4
Electrical Conductivity at 25C		U	1020	µS/cm	1.0	570	530	750	590	680	410	430
Suspended Solids At 105C		U	1030	mg/l	5.0	480	110000	570	780	30000	6.0	49
Total Dissolved Solids		N	1020	mg/l	1.0	370	340	480	380	440	260	280
Biochemical Oxygen Demand Low Level		N	1090	mg O2/l	1.0	1.0	< 1.0	1.0	1.0	< 1.0	2.0	2.0
Chemical Oxygen Demand Low Level		N	1100	mg O2/l	1.0	15	13	2.3	8.3	22	24	23
Dissolved Oxygen		N	1150	mg O2/l	0.50	8.5	8.4	8.5	7.9	9.5	8.4	8.2
Redox Potential		N	1170	mV	N/A	200	200	210	190	210	210	200
Alkalinity (Total)		U	1220	mg/l	10	550	210	630	200	580	230	240
Chloride		U	1220	mg/l	1.0	22	38	31	31	33	22	21
Ammoniacal Nitrogen		U	1220	mg/l	0.050	0.20	0.20	0.21	0.23	0.29	0.67	0.58
Nitrate as NO3		U	1220	mg/l	0.50	3.2	< 0.50	22	11	15	2.6	3.8
Phosphate		U	1220	mg/l	0.200	< 0.20	< 0.20	< 0.20	< 0.20	0.46	< 0.20	< 0.20
Sulphate		U	1220	mg/l	1.0	29	46	61	78	88	18	17
Calcium (Dissolved)		U	1455	mg/l	2.00	91	61	120	83	94	67	72
Potassium (Dissolved)		U	1455	mg/l	0.50	4.0	11	2.6	3.8	2.9	2.3	2.2
Magnesium (Dissolved)		U	1455	mg/l	0.20	7.2	16	19	9.3	6.5	5.6	5.8
Sodium (Dissolved)		U	1455	mg/l	1.50	11	15	19	16	43	9.9	9.5
Arsenic (Dissolved)		U	1455	µg/l	0.20	1.2	0.90	< 0.20	0.33	1.5	0.74	0.63
Barium (Dissolved)		U	1455	µg/l	5.00	64	36	40	76	35	41	49
Cadmium (Dissolved)		U	1455	µg/l	0.11	0.30	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Copper (Dissolved)		U	1455	µg/l	0.50	10	0.94	< 0.50	4.2	5.4	3.1	1.4
Iron (Dissolved)		N	1455	µg/l	5.0	< 5.0	20	< 5.0	< 5.0	< 5.0	12	20
Manganese (Dissolved)		U	1455	µg/l	0.50	29	99	< 0.50	< 0.50	24	< 0.50	< 0.50
Molybdenum (Dissolved)		U	1455	µg/l	0.20	2.0	69	0.59	8.0	8.3	0.46	0.33
Nickel (Dissolved)		U	1455	µg/l	0.50	6.2	4.1	0.51	0.63	1.7	1.5	1.1
Lead (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Antimony (Dissolved)		U	1455	µg/l	0.50	1.2	0.75	< 0.50	< 0.50	0.94	< 0.50	< 0.50
Selenium (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	1.8	1.0	2.8	< 0.50	< 0.50
Zinc (Dissolved)		U	1455	µg/l	2.5	19	3.4	6.4	8.0	7.3	9.0	3.8
Mercury Low Level		U	1460	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Chromium (Trivalent)		N	1490	µg/l	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Low-Level Chromium (Hexavalent)		U	1495	µg/l	0.10	0.33	< 0.10	0.75	0.44	0.25	< 0.10	0.28
Aliphatic TPH >C5-C6	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: P25019

Client: Priority Geotechnical Ltd		Chemtest Job No.:		25-17285	25-17285	25-17285	25-17285	25-17285	25-17285	25-17285	25-17285
Quotation No.: Q25-38372		Chemtest Sample ID.:		1977763	1977764	1977765	1977766	1977767	1977768	1977769	
		Client Reference:		BH311	BH312	BH314	BH302	BH310	SW	OUT FLOW	
		Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER	WATER	
		Sample Sub Type:									
		Date Sampled:		20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025	
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Aliphatic TPH >C21-C35	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	EH_2D_AL_#1	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C16-C21	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C21-C35	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C35-C44	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	EH_2D_AR_#1	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	EH_2D_Total_#1	N	1675	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10
Dichlorodifluoromethane		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
Chloromethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
Vinyl Chloride		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
Bromomethane		U	1760	µg/l	5	< 5	< 5	< 5	I/S	< 5	< 5
Chloroethane		U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	I/S	< 2.0	< 2.0
Trichlorofluoromethane		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
1,1-Dichloroethene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
Trans 1,2-Dichloroethene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
1,1-Dichloroethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
cis 1,2-Dichloroethene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
Bromochloromethane		U	1760	µg/l	5	< 5	< 5	< 5	I/S	< 5	< 5
Trichloromethane		U	1760	µg/l	1.0	< 1.0	< 1.0	1.0	I/S	< 1.0	< 1.0
1,1,1-Trichloroethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
Tetrachloromethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
1,1-Dichloropropene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
Benzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
1,2-Dichloroethane		U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	I/S	< 2.0	< 2.0
Trichloroethene		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
1,2-Dichloropropane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
Dibromomethane		U	1760	µg/l	10	< 10	< 10	< 10	I/S	< 10	< 10
Bromodichloromethane		U	1760	µg/l	5	< 5	< 5	< 5	I/S	< 5	< 5
cis-1,3-Dichloropropene		N	1760	µg/l	10	< 10	< 10	< 10	I/S	< 10	< 10
Toluene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
Trans-1,3-Dichloropropene		N	1760	µg/l	10	< 10	< 10	< 10	I/S	< 10	< 10
1,1,2-Trichloroethane		U	1760	µg/l	10	< 10	< 10	< 10	I/S	< 10	< 10
Tetrachloroethene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0

Results - Water

Project: P25019

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-17285	25-17285	25-17285	25-17285	25-17285	25-17285	25-17285
Quotation No.: Q25-38372		Chemtest Sample ID.:				1977763	1977764	1977765	1977766	1977767	1977768	1977769
		Client Reference:				BH311	BH312	BH314	BH302	BH310	SW	OUT FLOW
		Sample Type:				WATER	WATER	WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:										
		Date Sampled:				20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
1,3-Dichloropropane		U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	I/S	< 2.0	< 2.0
Dibromochloromethane		U	1760	µg/l	10	< 10	< 10	< 10	< 10	I/S	< 10	< 10
1,2-Dibromoethane		U	1760	µg/l	5	< 5	< 5	< 5	< 5	I/S	< 5	< 5
Chlorobenzene		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane		U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	I/S	< 2.0	< 2.0
Ethylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
m & p-Xylene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
o-Xylene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
Styrene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
Tribromomethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
Isopropylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
Bromobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
1,2,3-Trichloropropane		N	1760	µg/l	50	< 50	< 50	< 50	< 50	I/S	< 50	< 50
N-Propylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
2-Chlorotoluene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
1,3,5-Trimethylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
4-Chlorotoluene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
Tert-Butylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
1,2,4-Trimethylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
Sec-Butylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
1,3-Dichlorobenzene		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
4-Isopropyltoluene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
1,4-Dichlorobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
N-Butylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
1,2-Dichlorobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane		N	1760	µg/l	50	< 50	< 50	< 50	< 50	I/S	< 50	< 50
1,2,4-Trichlorobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
Hexachlorobutadiene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
1,2,3-Trichlorobenzene		U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	I/S	< 2.0	< 2.0
Methyl Tert-Butyl Ether		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	I/S	< 1.0	< 1.0
N-Nitrosodimethylamine		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylphenol (o-Cresol)		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Water

Project: P25019

Client: Priority Geotechnical Ltd		Chemtest Job No.:		25-17285	25-17285	25-17285	25-17285	25-17285	25-17285	25-17285	25-17285
Quotation No.: Q25-38372		Chemtest Sample ID.:		1977763	1977764	1977765	1977766	1977767	1977768	1977769	
		<i>Client Reference:</i>		BH311	BH312	BH314	BH302	BH310	SW	OUT FLOW	
		<i>Sample Type:</i>		WATER	WATER	WATER	WATER	WATER	WATER	WATER	
		<i>Sample Sub Type:</i>									
		<i>Date Sampled:</i>		20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025	
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Hexachloroethane		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methylphenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nitrobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isophorone		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitrophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dimethylphenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dichlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylnaphthalene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chloronaphthalene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthylene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dimethylphthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,6-Dinitrotoluene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
3-Nitroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenzofuran		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorophenylphenylether		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrotoluene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluorene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Azobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenanthrene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Anthracene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Carbazole		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Butyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluoranthene		N	1790	µg/l	0.50	< 0.50	1.4	< 0.50	< 0.50	< 0.50	< 0.50

Results - Water

Project: P25019

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-17285	25-17285	25-17285	25-17285	25-17285	25-17285	25-17285
Quotation No.: Q25-38372		Chemtest Sample ID.:				1977763	1977764	1977765	1977766	1977767	1977768	1977769
		Client Reference:				BH311	BH312	BH314	BH302	BH310	SW	OUT FLOW
		Sample Type:				WATER	WATER	WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:										
		Date Sampled:				20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Pyrene		N	1790	µg/l	0.50	< 0.50	0.95	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Butylbenzyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]anthracene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chrysene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[b]fluoranthene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[k]fluoranthene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]pyrene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenz(a,h)Anthracene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[g,h,i]perylene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitrophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
PCB 28		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 52		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 101		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 118		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 153		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 138		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 180		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Total PCBs (7 congeners)		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010

Results - Water

Project: P25019

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-17285	25-17285	25-17285	25-17285	25-17285
Quotation No.: Q25-38372		Chemtest Sample ID.:				1977770	1977771	1977772	1977773	1977774
		Client Reference:				UP STREAM	DOWN STREAM	BH306	BH309	BH308
		Sample Type:				WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:								
		Date Sampled:				20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
pH at 20C		U	1010		4.0	8.5	8.5	8.1	9.9	8.4
Electrical Conductivity at 25C		U	1020	µS/cm	1.0	440	430	630	640	760
Suspended Solids At 105C		U	1030	mg/l	5.0	28	41	5400	12000	I/S
Total Dissolved Solids		N	1020	mg/l	1.0	290	280	410	420	490
Biochemical Oxygen Demand Low Level		N	1090	mg O2/l	1.0	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chemical Oxygen Demand Low Level		N	1100	mg O2/l	1.0	28	21	20	64	19
Dissolved Oxygen		N	1150	mg O2/l	0.50	8.5	8.7	8.9	8.8	8.9
Redox Potential		N	1170	mV	N/A	180	200	200	190	200
Alkalinity (Total)		U	1220	mg/l	10	240	220	640	110	I/S
Chloride		U	1220	mg/l	1.0	21	22	23	39	I/S
Ammoniacal Nitrogen		U	1220	mg/l	0.050	0.54	0.58	1.0	1.6	I/S
Nitrate as NO3		U	1220	mg/l	0.50	4.3	3.8	11	< 0.50	I/S
Phosphate		U	1220	mg/l	0.200	< 0.20	< 0.20	< 0.20	< 0.20	I/S
Sulphate		U	1220	mg/l	1.0	17	17	55	210	I/S
Calcium (Dissolved)		U	1455	mg/l	2.00	72	70	99	71	I/S
Potassium (Dissolved)		U	1455	mg/l	0.50	2.1	2.1	0.98	26	I/S
Magnesium (Dissolved)		U	1455	mg/l	0.20	5.6	6.0	7.5	0.39	I/S
Sodium (Dissolved)		U	1455	mg/l	1.50	9.3	9.9	37	48	I/S
Arsenic (Dissolved)		U	1455	µg/l	0.20	0.51	0.97	0.41	5.8	I/S
Barium (Dissolved)		U	1455	µg/l	5.00	45	51	24	48	I/S
Cadmium (Dissolved)		U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11	< 0.11	I/S
Copper (Dissolved)		U	1455	µg/l	0.50	1.7	1.2	3.3	32	I/S
Iron (Dissolved)		N	1455	µg/l	5.0	17	21	< 5.0	23	I/S
Manganese (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	37	0.52	I/S
Molybdenum (Dissolved)		U	1455	µg/l	0.20	0.33	0.35	1.3	87	I/S
Nickel (Dissolved)		U	1455	µg/l	0.50	1.1	3.6	0.74	11	I/S
Lead (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	0.84	I/S
Antimony (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	2.9	I/S
Selenium (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	6.8	1.2	I/S
Zinc (Dissolved)		U	1455	µg/l	2.5	< 2.5	< 2.5	9.7	< 2.5	I/S
Mercury Low Level		U	1460	µg/l	0.010	< 0.010	< 0.010	< 0.010	I/S	I/S
Chromium (Trivalent)		N	1490	µg/l	20	< 20	< 20	< 20	< 20	I/S
Low-Level Chromium (Hexavalent)		U	1495	µg/l	0.10	0.43	0.24	0.14	1.4	I/S
Aliphatic TPH >C5-C6	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: P25019

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-17285	25-17285	25-17285	25-17285	25-17285
Quotation No.: Q25-38372		Chemtest Sample ID.:				1977770	1977771	1977772	1977773	1977774
		Client Reference:				UP STREAM	DOWN STREAM	BH306	BH309	BH308
		Sample Type:				WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:								
		Date Sampled:				20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Aliphatic TPH >C21-C35	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	EH_2D_AL_#1	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C16-C21	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C21-C35	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C35-C44	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	EH_2D_AR_#1	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	EH_2D_Total_#1	N	1675	µg/l	10	< 10	< 10	< 10	< 10	< 10
Dichlorodifluoromethane		N	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
Chloromethane		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
Vinyl Chloride		N	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
Bromomethane		U	1760	µg/l	5	< 5	< 5	I/S	I/S	I/S
Chloroethane		U	1760	µg/l	2.0	< 2.0	< 2.0	I/S	I/S	I/S
Trichlorofluoromethane		N	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
1,1-Dichloroethene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
Trans 1,2-Dichloroethene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
1,1-Dichloroethane		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
cis 1,2-Dichloroethene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
Bromochloromethane		U	1760	µg/l	5	< 5	< 5	I/S	I/S	I/S
Trichloromethane		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
1,1,1-Trichloroethane		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
Tetrachloromethane		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
1,1-Dichloropropene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
Benzene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
1,2-Dichloroethane		U	1760	µg/l	2.0	< 2.0	< 2.0	I/S	I/S	I/S
Trichloroethene		N	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
1,2-Dichloropropane		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
Dibromomethane		U	1760	µg/l	10	< 10	< 10	I/S	I/S	I/S
Bromodichloromethane		U	1760	µg/l	5	< 5	< 5	I/S	I/S	I/S
cis-1,3-Dichloropropene		N	1760	µg/l	10	< 10	< 10	I/S	I/S	I/S
Toluene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
Trans-1,3-Dichloropropene		N	1760	µg/l	10	< 10	< 10	I/S	I/S	I/S
1,1,2-Trichloroethane		U	1760	µg/l	10	< 10	< 10	I/S	I/S	I/S
Tetrachloroethene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S

Results - Water

Project: P25019

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-17285	25-17285	25-17285	25-17285	25-17285
Quotation No.: Q25-38372		Chemtest Sample ID.:				1977770	1977771	1977772	1977773	1977774
		Client Reference:				UP STREAM	DOWN STREAM	BH306	BH309	BH308
		Sample Type:				WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:								
		Date Sampled:				20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
1,3-Dichloropropane		U	1760	µg/l	2.0	< 2.0	< 2.0	I/S	I/S	I/S
Dibromochloromethane		U	1760	µg/l	10	< 10	< 10	I/S	I/S	I/S
1,2-Dibromoethane		U	1760	µg/l	5	< 5	< 5	I/S	I/S	I/S
Chlorobenzene		N	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
1,1,1,2-Tetrachloroethane		U	1760	µg/l	2.0	< 2.0	< 2.0	I/S	I/S	I/S
Ethylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
m & p-Xylene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
o-Xylene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
Styrene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
Tribromomethane		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
Isopropylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
Bromobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
1,2,3-Trichloropropane		N	1760	µg/l	50	< 50	< 50	I/S	I/S	I/S
N-Propylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
2-Chlorotoluene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
1,3,5-Trimethylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
4-Chlorotoluene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
Tert-Butylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
1,2,4-Trimethylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
Sec-Butylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
1,3-Dichlorobenzene		N	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
4-Isopropyltoluene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
1,4-Dichlorobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
N-Butylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
1,2-Dichlorobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
1,2-Dibromo-3-Chloropropane		N	1760	µg/l	50	< 50	< 50	I/S	I/S	I/S
1,2,4-Trichlorobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
Hexachlorobutadiene		U	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
1,2,3-Trichlorobenzene		U	1760	µg/l	2.0	< 2.0	< 2.0	I/S	I/S	I/S
Methyl Tert-Butyl Ether		N	1760	µg/l	1.0	< 1.0	< 1.0	I/S	I/S	I/S
N-Nitrosodimethylamine		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylphenol (o-Cresol)		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Water

Project: P25019

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-17285	25-17285	25-17285	25-17285	25-17285
Quotation No.: Q25-38372		Chemtest Sample ID.:				1977770	1977771	1977772	1977773	1977774
		Client Reference:				UP STREAM	DOWN STREAM	BH306	BH309	BH308
		Sample Type:				WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:								
		Date Sampled:				20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Hexachloroethane		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methylphenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nitrobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isophorone		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitrophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dimethylphenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dichlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylnaphthalene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chloronaphthalene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthylene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dimethylphthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,6-Dinitrotoluene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
3-Nitroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenzofuran		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorophenylphenylether		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrotoluene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluorene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Azobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenanthrene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Anthracene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Carbazole		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Butyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluoranthene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Water

Project: P25019

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-17285	25-17285	25-17285	25-17285	25-17285
Quotation No.: Q25-38372		Chemtest Sample ID.:				1977770	1977771	1977772	1977773	1977774
		Client Reference:				UP STREAM	DOWN STREAM	BH306	BH309	BH308
		Sample Type:				WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:								
		Date Sampled:				20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Pyrene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Butylbenzyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]anthracene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chrysene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[b]fluoranthene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[k]fluoranthene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]pyrene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenz(a,h)Anthracene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[g,h,i]perylene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitrophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
PCB 28		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 52		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 101		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 118		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 153		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 138		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 180		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Total PCBs (7 congeners)		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Chemtest Sample ID	Clients Sample Ref:	Clients Sample ID:	Clients Reference:	Sampled Date:	Deviation Code(s):	Containers Received:
1977763			BH311	20-May-2025	B	Coloured Winchester 1000ml
1977763			BH311	20-May-2025	B	EPA Vial 40ml
1977763			BH311	20-May-2025	B	Plastic Bottle 1000ml
1977764			BH312	20-May-2025	B	Coloured Winchester 1000ml
1977764			BH312	20-May-2025	B	EPA Vial 40ml
1977764			BH312	20-May-2025	B	Plastic Bottle 1000ml
1977765			BH314	20-May-2025	B	Coloured Winchester 1000ml
1977765			BH314	20-May-2025	B	EPA Vial 40ml
1977765			BH314	20-May-2025	B	Plastic Bottle 1000ml
1977766			BH302	20-May-2025	B	Coloured Winchester 1000ml
1977766			BH302	20-May-2025	B	EPA Vial 40ml
1977766			BH302	20-May-2025	B	Plastic Bottle 1000ml
1977767			BH310	20-May-2025	B,C	EPA Vial 40ml
1977767			BH310	20-May-2025	B,C	Plastic Bottle 1000ml
1977768			SW	20-May-2025	B	Coloured Winchester 1000ml
1977768			SW	20-May-2025	B	EPA Vial 40ml
1977768			SW	20-May-2025	B	Plastic Bottle 1000ml
1977769			OUT FLOW	20-May-2025	B	Coloured Winchester 1000ml
1977769			OUT FLOW	20-May-2025	B	EPA Vial 40ml
1977769			OUT FLOW	20-May-2025	B	Plastic Bottle 1000ml
1977770			UP STREAM	20-May-2025	B	Coloured Winchester 1000ml
1977770			UP STREAM	20-May-2025	B	EPA Vial 40ml
1977770			UP STREAM	20-May-2025	B	Plastic Bottle 1000ml
1977771			DOWN STREAM	20-May-2025	B	Coloured Winchester 1000ml
1977771			DOWN STREAM	20-May-2025	B	EPA Vial 40ml
1977771			DOWN STREAM	20-May-2025	B	Plastic Bottle 1000ml
1977772			BH306	20-May-2025	B,C	EPA Vial 40ml
1977772			BH306	20-May-2025	B,C	Plastic Bottle 1000ml
1977773			BH309	20-May-2025	B,C	EPA Vial 40ml
1977773			BH309	20-May-2025	B,C	Plastic Bottle 1000ml
1977774			BH308	20-May-2025	B,C	EPA Vial 40ml

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	RE PW TE TS PL DW GW
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	TE LE SW GW
1030	Total Suspended Solids	Total suspended solids	Filtration of a mixed sample through a standard glass fibre filter and determination of the mass of residue retained dried at 105°C.	SW
1090	Biochemical Oxygen Demand	Biochemical Oxygen demand (BOD)	Colorimetric determination of dissolved oxygen in seeded sample after 5 days incubation at 20°C.	
1100	Chemical Oxygen Demand	Chemical Oxygen demand (COD)	Dichromate oxidation of organic matter in sample followed by colorimetric determination of residual Cr[VI].	
1150	Dissolved Oxygen	Dissolved Oxygen (DO)	Electrometric determination (on site preferred), using oxygen sensitive membrane electrode.	
1170	Redox Potential	Redox Potential	Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW PL LE DW GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1460	Mercury low-level in Waters by AFS	Mercury	Atomic Fluorescence Spectrometry, with collimated UV source, wavelength 253.7 nm.	PL GW
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	PL GW
1495	Low Level Hexavalent Chromium in Waters	Chromium [VI]	Colorimetric determination of hexavalent chromium expressed as Cr (VI) µg/l in water, using Ion Chromatography and UV-visible spectrophotometry.	GW
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection	
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.	PL GW
1790	Semi-Volatile Organic Compounds (SVOCs) in Waters by GC-MS	Semi-volatile organic compounds	Solvent extraction / GCMS detection	
1815	Polychlorinated Biphenyls (PCB) ICES7 Congeners in Waters by GC-MS	ICES7 PCB congeners	Solvent extraction / GCMS detection	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Text example All items indicated in italic font represent customer-supplied information that may not be independently verified by the laboratory
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Uncertainty of measurement for the determinands tested are available upon request .
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The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.
For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.
All Asbestos testing is performed at the indicated laboratory .
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - The required amount of sample for analysis was not received
- H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.
All water samples will be retained for 14 days from the date of receipt.
Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Final Report

Report No.: 25-17339-1

Initial Date of Issue: 12-Jun-2025

Re-Issue Details:

Client *Priority Geotechnical Ltd*

Client Address: *Unit 12
Owenacurra Business Park
Midleton
County Cork
Ireland*

Contact(s): *Colette Kelly*

Project *P25019 Cleeves*

Quotation No.: *Q24-36680*

Date Received: 23-May-2025

Order No.: 16776

Date Instructed: 23-May-2025

No. of Samples: 6

Turnaround (Wkdays): 15

Results Due: 13-Jun-2025

Date Approved: 12-Jun-2025

Subcon Results Due: 16-Jun-2025

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Water

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:						25-17339	25-17339	25-17339	25-17339	25-17339	25-17339
<i>Quotation No.: Q24-36680</i>		Chemtest Sample ID.:						1977920	1977921	1977922	1977923	1977924	1977925
		<i>Client Reference:</i>						BH312	BH302	BH309	TRIP BLANK	FIELD BLANK	EQUIPMENT BLANK
		<i>Sample Type:</i>						WATER	WATER	WATER	WATER	WATER	WATER
		<i>Sample Sub Type:</i>											
		<i>Date Sampled:</i>						20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025	20-May-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
PFAS in Waters (Subcon)		SN			N/A	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached
PFAS Top Assay Waters		SN		ng/l	1.00	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Text example All items indicated in italic font represent customer-supplied information that may not be independently verified by the laboratory
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NEW_ASB Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

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- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - The required amount of sample for analysis was not received
- H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.
All water samples will be retained for 14 days from the date of receipt.
Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
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HWOL Acronym System

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+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 25-23031-1

Initial Date of Issue: 25-Jul-2025

Re-Issue Details:

Client *Priority Geotechnical Ltd*

Client Address: *Unit 12
Owenacurra Business Park
Midleton
County Cork
Ireland*

Contact(s): *Colette Kelly*

Project *P25019 Cleeves*

Quotation No.: *Q25-38372*

Date Received: 11-Jul-2025

Order No.: 16776

Date Instructed: 11-Jul-2025

No. of Samples: 11

Turnaround (Wkdays): 5

Results Due: 17-Jul-2025

Date Approved: 25-Jul-2025

Approved By:

Details: Simon Wicks, Specialist Chemist

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Water

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:						25-23031	25-23031	25-23031	25-23031	25-23031	25-23031	25-23031
Quotation No.: Q25-38372		Chemtest Sample ID.:						1999294	1999295	1999296	1999297	1999298	1999299	1999300
		Client Reference:						BH302	BH308	BH309	BH310	BH311	BH312	BH313
		Sample Type:						WATER	WATER	WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:						Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
		Date Sampled:						08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD									
pH at 20C		U	1010		4.0	8.3						8.2	8.1	8.2
Electrical Conductivity at 25C		U	1020	µS/cm	1.0	500						500	500	590
Suspended Solids At 105C		U	1030	mg/l	5.0	820						87	9000	13000
Total Dissolved Solids		N	1020	mg/l	1.0	330						320	330	380
Biochemical Oxygen Demand Low Level		N	1090	mg O2/l	1.0	4.0						4.0	4.0	5.0
Chemical Oxygen Demand Low Level		N	1100	mg O2/l	1.0	16						17	17	20
Dissolved Oxygen		N	1150	mg O2/l	0.50	9.1	7.8	9.2	7.8			8.9	8.9	8.8
Redox Potential		N	1170	mV	N/A	190						200	200	200
Alkalinity (Total)		U	1220	mg/l	10	180						250	210	180
Chloride		U	1220	mg/l	1.0	19						18	23	32
Ammoniacal Nitrogen		U	1220	mg/l	0.050	0.35						0.30	0.37	0.40
Nitrate as NO3		U	1220	mg/l	0.50	6.8						4.9	2.5	< 0.50
Phosphate		U	1220	mg/l	0.200	< 0.20						< 0.20	< 0.20	< 0.20
Sulphate		U	1220	mg/l	1.0	81						31	24	24
Calcium (Dissolved)		U	1455	mg/l	2.00	72						76	77	60
Potassium (Dissolved)		U	1455	mg/l	0.50	4.4						3.8	4.1	2.6
Magnesium (Dissolved)		U	1455	mg/l	0.20	8.2						6.4	7.4	13
Sodium (Dissolved)		U	1455	mg/l	1.50	15						12	14	44
Arsenic (Dissolved)		U	1455	µg/l	0.20	0.53						0.71	0.84	4.8
Barium (Dissolved)		U	1455	µg/l	5.00	56						44	26	55
Cadmium (Dissolved)		U	1455	µg/l	0.11	< 0.11						< 0.11	< 0.11	< 0.11
Copper (Dissolved)		U	1455	µg/l	0.50	4.4						7.4	1.9	1.5
Iron (Dissolved)		N	1455	µg/l	5.0	< 5.0						< 5.0	< 5.0	< 5.0
Manganese (Dissolved)		U	1455	µg/l	0.50	< 0.50						24	120	550
Molybdenum (Dissolved)		U	1455	µg/l	0.20	5.6						1.5	9.3	10
Nickel (Dissolved)		U	1455	µg/l	0.50	1.1						2.6	2.5	3.0
Lead (Dissolved)		U	1455	µg/l	0.50	< 0.50						< 0.50	< 0.50	< 0.50
Antimony (Dissolved)		U	1455	µg/l	0.50	0.78						0.75	< 0.50	0.77
Selenium (Dissolved)		U	1455	µg/l	0.50	2.5						1.1	1.1	1.6
Zinc (Dissolved)		U	1455	µg/l	2.5	22						23	4.0	4.2
Mercury Low Level		U	1460	µg/l	0.010	< 0.010						< 0.010	< 0.010	< 0.010
Chromium (Trivalent)		N	1490	µg/l	20	< 20						< 20	< 20	< 20
Low-Level Chromium (Hexavalent)		U	1495	µg/l	0.10	< 0.10						< 0.10	< 0.10	< 0.10
Aliphatic TPH >C5-C6	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10						< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10						< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10						< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10						< 0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10						< 0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10						< 0.10	< 0.10	< 0.10

Results - Water

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:						25-23031	25-23031	25-23031	25-23031	25-23031	25-23031	25-23031
Quotation No.: Q25-38372		Chemtest Sample ID.:						1999294	1999295	1999296	1999297	1999298	1999299	1999300
		Client Reference:						BH302	BH308	BH309	BH310	BH311	BH312	BH313
		Sample Type:						WATER	WATER	WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:						Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
		Date Sampled:						08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD									
Aliphatic TPH >C21-C35	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10						< 0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10						< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	EH_2D_AL_#1	N	1675	µg/l	5.0	< 5.0						< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10						< 0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10						< 0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10						< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10						< 0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10						< 0.10	< 0.10	< 0.10
Aromatic TPH >C16-C21	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10						< 0.10	< 0.10	< 0.10
Aromatic TPH >C21-C35	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10						< 0.10	< 0.10	< 0.10
Aromatic TPH >C35-C44	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10						< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	EH_2D_AR_#1	N	1675	µg/l	5.0	< 5.0						< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	EH_2D_Total_#1	N	1675	µg/l	10	< 10						< 10	< 10	< 10
Dichlorodifluoromethane		N	1760	µg/l	1.0	< 1.0						< 1.0	< 1.0	< 1.0
Chloromethane		U	1760	µg/l	1.0	< 1.0						< 1.0	< 1.0	< 1.0
Vinyl Chloride		N	1760	µg/l	1.0	< 1.0						< 1.0	< 1.0	< 1.0
Bromomethane		U	1760	µg/l	5	< 5						< 5	< 5	< 5
Chloroethane		U	1760	µg/l	2.0	< 2.0						< 2.0	< 2.0	< 2.0
Trichlorofluoromethane		N	1760	µg/l	1.0	< 1.0						< 1.0	< 1.0	< 1.0
1,1-Dichloroethene		N	1760	µg/l	1.0	< 1.0						< 1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene		U	1760	µg/l	1.0	< 1.0						< 1.0	< 1.0	< 1.0
1,1-Dichloroethane		U	1760	µg/l	1.0	< 1.0						< 1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene		U	1760	µg/l	1.0	< 1.0						< 1.0	< 1.0	< 1.0
Bromochloromethane		U	1760	µg/l	5	< 5						< 5	< 5	< 5
Trichloromethane		U	1760	µg/l	1.0	< 1.0						< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane		U	1760	µg/l	1.0	< 1.0						< 1.0	< 1.0	< 1.0
Tetrachloromethane		N	1760	µg/l	1.0	< 1.0						< 1.0	< 1.0	< 1.0
1,1-Dichloropropene		U	1760	µg/l	1.0	< 1.0						< 1.0	< 1.0	< 1.0
Benzene		U	1760	µg/l	1.0	< 1.0						< 1.0	< 1.0	< 1.0
1,2-Dichloroethane		U	1760	µg/l	2.0	< 2.0						< 2.0	< 2.0	< 2.0
Trichloroethene		N	1760	µg/l	1.0	< 1.0						< 1.0	< 1.0	< 1.0
1,2-Dichloropropane		U	1760	µg/l	1.0	< 1.0						< 1.0	< 1.0	< 1.0
Dibromomethane		U	1760	µg/l	10	< 10						< 10	< 10	< 10
Bromodichloromethane		U	1760	µg/l	5	< 5						< 5	< 5	< 5
cis-1,3-Dichloropropene		N	1760	µg/l	10	< 10						< 10	< 10	< 10
Toluene		U	1760	µg/l	1.0	< 1.0						< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene		N	1760	µg/l	10	< 10						< 10	< 10	< 10
1,1,2-Trichloroethane		U	1760	µg/l	10	< 10						< 10	< 10	< 10
Tetrachloroethene		U	1760	µg/l	1.0	< 1.0						< 1.0	< 1.0	< 1.0

Results - Water

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:					25-23031	25-23031	25-23031	25-23031	25-23031	25-23031	25-23031
Quotation No.: Q25-38372		Chemtest Sample ID.:					1999294	1999295	1999296	1999297	1999298	1999299	1999300
		Client Reference:					BH302	BH308	BH309	BH310	BH311	BH312	BH313
		Sample Type:					WATER	WATER	WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:					Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
		Date Sampled:					08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
1,3-Dichloropropane		U	1760	µg/l	2.0	< 2.0					< 2.0	< 2.0	< 2.0
Dibromochloromethane		U	1760	µg/l	10	< 10					< 10	< 10	< 10
1,2-Dibromoethane		U	1760	µg/l	5	< 5					< 5	< 5	< 5
Chlorobenzene		N	1760	µg/l	1.0	< 1.0					< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane		U	1760	µg/l	2.0	< 2.0					< 2.0	< 2.0	< 2.0
Ethylbenzene		U	1760	µg/l	1.0	< 1.0					< 1.0	< 1.0	< 1.0
m & p-Xylene		U	1760	µg/l	1.0	< 1.0					< 1.0	< 1.0	< 1.0
o-Xylene		U	1760	µg/l	1.0	< 1.0					< 1.0	< 1.0	< 1.0
Styrene		U	1760	µg/l	1.0	< 1.0					< 1.0	< 1.0	< 1.0
Tribromomethane		U	1760	µg/l	1.0	< 1.0					< 1.0	< 1.0	< 1.0
Isopropylbenzene		U	1760	µg/l	1.0	< 1.0					< 1.0	< 1.0	< 1.0
Bromobenzene		U	1760	µg/l	1.0	< 1.0					< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane		N	1760	µg/l	50	< 50					< 50	< 50	< 50
N-Propylbenzene		U	1760	µg/l	1.0	< 1.0					< 1.0	< 1.0	< 1.0
2-Chlorotoluene		U	1760	µg/l	1.0	< 1.0					< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene		U	1760	µg/l	1.0	< 1.0					< 1.0	< 1.0	< 1.0
4-Chlorotoluene		U	1760	µg/l	1.0	< 1.0					< 1.0	< 1.0	< 1.0
Tert-Butylbenzene		U	1760	µg/l	1.0	< 1.0					< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene		U	1760	µg/l	1.0	< 1.0					< 1.0	< 1.0	< 1.0
Sec-Butylbenzene		U	1760	µg/l	1.0	< 1.0					< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene		N	1760	µg/l	1.0	< 1.0					< 1.0	< 1.0	< 1.0
4-Isopropyltoluene		U	1760	µg/l	1.0	< 1.0					< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene		U	1760	µg/l	1.0	< 1.0					< 1.0	< 1.0	< 1.0
N-Butylbenzene		U	1760	µg/l	1.0	< 1.0					< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene		U	1760	µg/l	1.0	< 1.0					< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane		N	1760	µg/l	50	< 50					< 50	< 50	< 50
1,2,4-Trichlorobenzene		U	1760	µg/l	1.0	< 1.0					< 1.0	< 1.0	< 1.0
Hexachlorobutadiene		U	1760	µg/l	1.0	< 1.0					< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene		U	1760	µg/l	2.0	< 2.0					< 2.0	< 2.0	< 2.0
Methyl Tert-Butyl Ether		N	1760	µg/l	1.0	< 1.0					< 1.0	< 1.0	< 1.0
N-Nitrosodimethylamine		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50
Phenol		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50
2-Chlorophenol		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50
2-Methylphenol (o-Cresol)		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50

Results - Water

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:						25-23031	25-23031	25-23031	25-23031	25-23031	25-23031	25-23031
Quotation No.: Q25-38372		Chemtest Sample ID.:						1999294	1999295	1999296	1999297	1999298	1999299	1999300
		Client Reference:						BH302	BH308	BH309	BH310	BH311	BH312	BH313
		Sample Type:						WATER	WATER	WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:						Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
		Date Sampled:						08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD									
Hexachloroethane		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
N-Nitrosodi-n-propylamine		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
4-Methylphenol		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
Nitrobenzene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
Isophorone		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
2-Nitrophenol		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
2,4-Dimethylphenol		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
Bis(2-Chloroethoxy)Methane		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
2,4-Dichlorophenol		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
1,2,4-Trichlorobenzene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
Naphthalene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
4-Chloroaniline		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
Hexachlorobutadiene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
4-Chloro-3-Methylphenol		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
2-Methylnaphthalene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
2,4,6-Trichlorophenol		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
2,4,5-Trichlorophenol		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
2-Chloronaphthalene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
2-Nitroaniline		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
Acenaphthylene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
Dimethylphthalate		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
2,6-Dinitrotoluene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
Acenaphthene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
3-Nitroaniline		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
Dibenzofuran		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
4-Chlorophenylphenylether		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
2,4-Dinitrotoluene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
Fluorene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
Diethyl Phthalate		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
4-Nitroaniline		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
2-Methyl-4,6-Dinitrophenol		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
Azobenzene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
4-Bromophenylphenyl Ether		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
Hexachlorobenzene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
Phenanthrene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
Anthracene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
Carbazole		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
Di-N-Butyl Phthalate		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	
Fluoranthene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	

Results - Water

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:						25-23031	25-23031	25-23031	25-23031	25-23031	25-23031	25-23031
Quotation No.: Q25-38372		Chemtest Sample ID.:						1999294	1999295	1999296	1999297	1999298	1999299	1999300
		Client Reference:						BH302	BH308	BH309	BH310	BH311	BH312	BH313
		Sample Type:						WATER	WATER	WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:						Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
		Date Sampled:						08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD									
Pyrene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50
Butylbenzyl Phthalate		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]anthracene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50
Chrysene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50
Benzo[b]fluoranthene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50
Benzo[k]fluoranthene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]pyrene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50
Dibenz(a,h)Anthracene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50
Benzo[g,h,i]perylene		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50
4-Nitrophenol		N	1790	µg/l	0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50
PCB 28		N	1815	µg/l	0.010	< 0.010					< 0.010	< 0.010	< 0.010	< 0.010
PCB 52		N	1815	µg/l	0.010	< 0.010					< 0.010	< 0.010	< 0.010	< 0.010
PCB 101		N	1815	µg/l	0.010	< 0.010					< 0.010	< 0.010	< 0.010	< 0.010
PCB 118		N	1815	µg/l	0.010	< 0.010					< 0.010	< 0.010	< 0.010	< 0.010
PCB 153		N	1815	µg/l	0.010	< 0.010					< 0.010	< 0.010	< 0.010	< 0.010
PCB 138		N	1815	µg/l	0.010	< 0.010					< 0.010	< 0.010	< 0.010	< 0.010
PCB 180		N	1815	µg/l	0.010	< 0.010					< 0.010	< 0.010	< 0.010	< 0.010
Total PCBs (7 congeners)		N	1815	µg/l	0.010	< 0.010					< 0.010	< 0.010	< 0.010	< 0.010

Results - Water

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-23031	25-23031
Quotation No.: Q25-38372		Chemtest Sample ID.:				1999301	1999302
		Client Reference:				BH314	SW01
		Sample Type:				WATER	WATER
		Sample Sub Type:				Ground Water	Surface Water
		Date Sampled:				08-Jul-2025	08-Jul-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
pH at 20C		U	1010		4.0	8.0	8.5
Electrical Conductivity at 25C		U	1020	µS/cm	1.0	730	320
Suspended Solids At 105C		U	1030	mg/l	5.0	2200	130
Total Dissolved Solids		N	1020	mg/l	1.0	470	210
Biochemical Oxygen Demand Low Level		N	1090	mg O2/l	1.0	2.0	3.0
Chemical Oxygen Demand Low Level		N	1100	mg O2/l	1.0	11	28
Dissolved Oxygen		N	1150	mg O2/l	0.50	8.7	8.6
Redox Potential		N	1170	mV	N/A	210	190
Alkalinity (Total)		U	1220	mg/l	10	190	100
Chloride		U	1220	mg/l	1.0	31	25
Ammoniacal Nitrogen		U	1220	mg/l	0.050	0.36	0.58
Nitrate as NO3		U	1220	mg/l	0.50	17	< 0.50
Phosphate		U	1220	mg/l	0.200	< 0.20	< 0.20
Sulphate		U	1220	mg/l	1.0	61	15
Calcium (Dissolved)		U	1455	mg/l	2.00	110	30
Potassium (Dissolved)		U	1455	mg/l	0.50	2.8	1.6
Magnesium (Dissolved)		U	1455	mg/l	0.20	17	4.9
Sodium (Dissolved)		U	1455	mg/l	1.50	21	12
Arsenic (Dissolved)		U	1455	µg/l	0.20	0.34	1.1
Barium (Dissolved)		U	1455	µg/l	5.00	49	16
Cadmium (Dissolved)		U	1455	µg/l	0.11	< 0.11	< 0.11
Copper (Dissolved)		U	1455	µg/l	0.50	0.64	1.8
Iron (Dissolved)		N	1455	µg/l	5.0	< 5.0	13
Manganese (Dissolved)		U	1455	µg/l	0.50	6.5	1.6
Molybdenum (Dissolved)		U	1455	µg/l	0.20	0.64	0.38
Nickel (Dissolved)		U	1455	µg/l	0.50	0.93	2.0
Lead (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50
Antimony (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50
Selenium (Dissolved)		U	1455	µg/l	0.50	2.4	0.59
Zinc (Dissolved)		U	1455	µg/l	2.5	8.3	39
Mercury Low Level		U	1460	µg/l	0.010	< 0.010	0.12
Chromium (Trivalent)		N	1490	µg/l	20	< 20	< 20
Low-Level Chromium (Hexavalent)		U	1495	µg/l	0.10	0.74	< 0.10
Aliphatic TPH >C5-C6	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10

Results - Water

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-23031	25-23031
Quotation No.: Q25-38372		Chemtest Sample ID.:				1999301	1999302
		Client Reference:				BH314	SW01
		Sample Type:				WATER	WATER
		Sample Sub Type:				Ground Water	Surface Water
		Date Sampled:				08-Jul-2025	08-Jul-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Aliphatic TPH >C21-C35	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10
Aliphatic TPH >C35-C44	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	EH_2D_AL_#1	N	1675	µg/l	5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C16-C21	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C21-C35	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10
Aromatic TPH >C35-C44	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	EH_2D_AR_#1	N	1675	µg/l	5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	EH_2D_Total_#1	N	1675	µg/l	10	< 10	< 10
Dichlorodifluoromethane		N	1760	µg/l	1.0	< 1.0	< 1.0
Chloromethane		U	1760	µg/l	1.0	< 1.0	< 1.0
Vinyl Chloride		N	1760	µg/l	1.0	< 1.0	< 1.0
Bromomethane		U	1760	µg/l	5	< 5	< 5
Chloroethane		U	1760	µg/l	2.0	< 2.0	< 2.0
Trichlorofluoromethane		N	1760	µg/l	1.0	< 1.0	< 1.0
1,1-Dichloroethene		N	1760	µg/l	1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene		U	1760	µg/l	1.0	< 1.0	< 1.0
1,1-Dichloroethane		U	1760	µg/l	1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene		U	1760	µg/l	1.0	< 1.0	< 1.0
Bromochloromethane		U	1760	µg/l	5	< 5	< 5
Trichloromethane		U	1760	µg/l	1.0	< 1.0	< 1.0
1,1,1-Trichloroethane		U	1760	µg/l	1.0	< 1.0	< 1.0
Tetrachloromethane		N	1760	µg/l	1.0	< 1.0	< 1.0
1,1-Dichloropropene		U	1760	µg/l	1.0	< 1.0	< 1.0
Benzene		U	1760	µg/l	1.0	< 1.0	< 1.0
1,2-Dichloroethane		U	1760	µg/l	2.0	< 2.0	< 2.0
Trichloroethene		N	1760	µg/l	1.0	< 1.0	< 1.0
1,2-Dichloropropane		U	1760	µg/l	1.0	< 1.0	< 1.0
Dibromomethane		U	1760	µg/l	10	< 10	< 10
Bromodichloromethane		U	1760	µg/l	5	< 5	< 5
cis-1,3-Dichloropropene		N	1760	µg/l	10	< 10	< 10
Toluene		U	1760	µg/l	1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene		N	1760	µg/l	10	< 10	< 10
1,1,2-Trichloroethane		U	1760	µg/l	10	< 10	< 10
Tetrachloroethene		U	1760	µg/l	1.0	< 1.0	< 1.0

Results - Water

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-23031	25-23031
Quotation No.: Q25-38372		Chemtest Sample ID.:				1999301	1999302
		Client Reference:				BH314	SW01
		Sample Type:				WATER	WATER
		Sample Sub Type:				Ground Water	Surface Water
		Date Sampled:				08-Jul-2025	08-Jul-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
1,3-Dichloropropane		U	1760	µg/l	2.0	< 2.0	< 2.0
Dibromochloromethane		U	1760	µg/l	10	< 10	< 10
1,2-Dibromoethane		U	1760	µg/l	5	< 5	< 5
Chlorobenzene		N	1760	µg/l	1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane		U	1760	µg/l	2.0	< 2.0	< 2.0
Ethylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0
m & p-Xylene		U	1760	µg/l	1.0	< 1.0	< 1.0
o-Xylene		U	1760	µg/l	1.0	< 1.0	< 1.0
Styrene		U	1760	µg/l	1.0	< 1.0	< 1.0
Tribromomethane		U	1760	µg/l	1.0	< 1.0	< 1.0
Isopropylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0
Bromobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0
1,2,3-Trichloropropane		N	1760	µg/l	50	< 50	< 50
N-Propylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0
2-Chlorotoluene		U	1760	µg/l	1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0
4-Chlorotoluene		U	1760	µg/l	1.0	< 1.0	< 1.0
Tert-Butylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0
Sec-Butylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0
1,3-Dichlorobenzene		N	1760	µg/l	1.0	< 1.0	< 1.0
4-Isopropyltoluene		U	1760	µg/l	1.0	< 1.0	< 1.0
1,4-Dichlorobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0
N-Butylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0
1,2-Dichlorobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane		N	1760	µg/l	50	< 50	< 50
1,2,4-Trichlorobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0
Hexachlorobutadiene		U	1760	µg/l	1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene		U	1760	µg/l	2.0	< 2.0	< 2.0
Methyl Tert-Butyl Ether		N	1760	µg/l	1.0	< 1.0	< 1.0
N-Nitrosodimethylamine		N	1790	µg/l	0.50	< 0.50	< 0.50
Phenol		N	1790	µg/l	0.50	< 0.50	< 0.50
2-Chlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether		N	1790	µg/l	0.50	< 0.50	< 0.50
1,3-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50
1,4-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50
1,2-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50
2-Methylphenol (o-Cresol)		N	1790	µg/l	0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether		N	1790	µg/l	0.50	< 0.50	< 0.50

Results - Water

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-23031	25-23031
Quotation No.: Q25-38372		Chemtest Sample ID.:				1999301	1999302
		Client Reference:				BH314	SW01
		Sample Type:				WATER	WATER
		Sample Sub Type:				Ground Water	Surface Water
		Date Sampled:				08-Jul-2025	08-Jul-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Hexachloroethane		N	1790	µg/l	0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine		N	1790	µg/l	0.50	< 0.50	< 0.50
4-Methylphenol		N	1790	µg/l	0.50	< 0.50	< 0.50
Nitrobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50
Isophorone		N	1790	µg/l	0.50	< 0.50	< 0.50
2-Nitrophenol		N	1790	µg/l	0.50	< 0.50	< 0.50
2,4-Dimethylphenol		N	1790	µg/l	0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane		N	1790	µg/l	0.50	< 0.50	< 0.50
2,4-Dichlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50
Naphthalene		N	1790	µg/l	0.50	< 0.50	< 0.50
4-Chloroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50
Hexachlorobutadiene		N	1790	µg/l	0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol		N	1790	µg/l	0.50	< 0.50	< 0.50
2-Methylnaphthalene		N	1790	µg/l	0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50
2-Chloronaphthalene		N	1790	µg/l	0.50	< 0.50	< 0.50
2-Nitroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50
Acenaphthylene		N	1790	µg/l	0.50	< 0.50	< 0.50
Dimethylphthalate		N	1790	µg/l	0.50	< 0.50	< 0.50
2,6-Dinitrotoluene		N	1790	µg/l	0.50	< 0.50	< 0.50
Acenaphthene		N	1790	µg/l	0.50	< 0.50	< 0.50
3-Nitroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50
Dibenzofuran		N	1790	µg/l	0.50	< 0.50	< 0.50
4-Chlorophenylphenylether		N	1790	µg/l	0.50	< 0.50	< 0.50
2,4-Dinitrotoluene		N	1790	µg/l	0.50	< 0.50	< 0.50
Fluorene		N	1790	µg/l	0.50	< 0.50	< 0.50
Diethyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50
4-Nitroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol		N	1790	µg/l	0.50	< 0.50	< 0.50
Azobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether		N	1790	µg/l	0.50	< 0.50	< 0.50
Hexachlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50
Phenanthrene		N	1790	µg/l	0.50	< 0.50	< 0.50
Anthracene		N	1790	µg/l	0.50	< 0.50	< 0.50
Carbazole		N	1790	µg/l	0.50	< 0.50	< 0.50
Di-N-Butyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50
Fluoranthene		N	1790	µg/l	0.50	< 0.50	< 0.50

Results - Water

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-23031	25-23031
Quotation No.: Q25-38372		Chemtest Sample ID.:				1999301	1999302
		Client Reference:				BH314	SW01
		Sample Type:				WATER	WATER
		Sample Sub Type:				Ground Water	Surface Water
		Date Sampled:				08-Jul-2025	08-Jul-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Pyrene		N	1790	µg/l	0.50	< 0.50	< 0.50
Butylbenzyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50
Benzo[a]anthracene		N	1790	µg/l	0.50	< 0.50	< 0.50
Chrysene		N	1790	µg/l	0.50	< 0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50
Benzo[b]fluoranthene		N	1790	µg/l	0.50	< 0.50	< 0.50
Benzo[k]fluoranthene		N	1790	µg/l	0.50	< 0.50	< 0.50
Benzo[a]pyrene		N	1790	µg/l	0.50	< 0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene		N	1790	µg/l	0.50	< 0.50	< 0.50
Dibenz(a,h)Anthracene		N	1790	µg/l	0.50	< 0.50	< 0.50
Benzo[g,h,i]perylene		N	1790	µg/l	0.50	< 0.50	< 0.50
4-Nitrophenol		N	1790	µg/l	0.50	< 0.50	< 0.50
PCB 28		N	1815	µg/l	0.010	< 0.010	< 0.010
PCB 52		N	1815	µg/l	0.010	< 0.010	< 0.010
PCB 101		N	1815	µg/l	0.010	< 0.010	< 0.010
PCB 118		N	1815	µg/l	0.010	< 0.010	< 0.010
PCB 153		N	1815	µg/l	0.010	< 0.010	< 0.010
PCB 138		N	1815	µg/l	0.010	< 0.010	< 0.010
PCB 180		N	1815	µg/l	0.010	< 0.010	< 0.010
Total PCBs (7 congeners)		N	1815	µg/l	0.010	< 0.010	< 0.010

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63, Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Chemtest Sample ID	Clients Sample Ref:	Clients Sample ID:	Clients Reference:	Sampled Date:	Deviation Code(s):	Containers Received:
1999294			BH302	08-Jul-2025	B,H	Coloured Winchester 1000ml
1999294			BH302	08-Jul-2025	B,H	EPA Vial 40ml
1999294			BH302	08-Jul-2025	B,H	Plastic Bottle 1000ml
1999295			BH308	08-Jul-2025	H	Coloured Winchester 1000ml
1999295			BH308	08-Jul-2025	H	Plastic Bottle 1000ml
1999296			BH309	08-Jul-2025	H	Coloured Winchester 1000ml
1999296			BH309	08-Jul-2025	H	EPA Vial 40ml
1999296			BH309	08-Jul-2025	H	Plastic Bottle 1000ml
1999297			BH310	08-Jul-2025	H	Coloured Winchester 1000ml
1999297			BH310	08-Jul-2025	H	EPA Vial 40ml
1999297			BH310	08-Jul-2025	H	Plastic Bottle 1000ml
1999298			BH311	08-Jul-2025	B,H	Coloured Winchester 1000ml
1999298			BH311	08-Jul-2025	B,H	EPA Vial 40ml
1999298			BH311	08-Jul-2025	B,H	Plastic Bottle 1000ml
1999299			BH312	08-Jul-2025	B,H	Coloured Winchester 1000ml
1999299			BH312	08-Jul-2025	B,H	EPA Vial 40ml
1999299			BH312	08-Jul-2025	B,H	Plastic Bottle 1000ml
1999300			BH313	08-Jul-2025	B,H	Coloured Winchester 1000ml
1999300			BH313	08-Jul-2025	B,H	EPA Vial 40ml
1999300			BH313	08-Jul-2025	B,H	Plastic Bottle 1000ml
1999301			BH314	08-Jul-2025	B,H	Coloured Winchester 1000ml
1999301			BH314	08-Jul-2025	B,H	EPA Vial 40ml
1999301			BH314	08-Jul-2025	B,H	Plastic Bottle 1000ml
1999302			SW01	08-Jul-2025	B,H	Coloured Winchester 1000ml
1999302			SW01	08-Jul-2025	B,H	EPA Vial 40ml
1999302			SW01	08-Jul-2025	B,H	Plastic Bottle 1000ml
1999303			BH306	08-Jul-2025	H	EPA Vial 40ml
1999303			BH306	08-Jul-2025	H	Plastic Bottle 1000ml
1999304			BH307	08-Jul-2025	H	EPA Vial 40ml

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20 °C	pH Meter	RE PW TE TS PL DW GW
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25 °C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	TE LE SW GW
1030	Total Suspended Solids	Total suspended solids	Filtration of a mixed sample through a standard glass fibre filter and determination of the mass of residue retained dried at 105 °C.	SW
1090	Biochemical Oxygen Demand	Biochemical Oxygen demand (BOD)	Colorimetric determination of dissolved oxygen in seeded sample after 5 days incubation at 20 °C.	
1100	Chemical Oxygen Demand	Chemical Oxygen demand (COD)	Dichromate oxidation of organic matter in sample followed by colorimetric determination of residual Cr(VI).	
1150	Dissolved Oxygen	Dissolved Oxygen (DO)	Electrometric determination (on site preferred), using oxygen sensitive membrane electrode.	
1170	Redox Potential	Redox Potential	Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW PL LE DW GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1460	Mercury low-level in Waters by AFS	Mercury	Atomic Fluorescence Spectrometry, with collimated UV source, wavelength 253.7 nm.	PL GW
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.	PL GW
1495	Low Level Hexavalent Chromium in Waters	Chromium [VI]	Colorimetric determination of hexavalent chromium expressed as Cr (VI) µg/l in water, using Ion Chromatography and UV-visible spectrophotometry.	GW
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection	
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.	PL GW
1790	Semi-Volatile Organic Compounds (SVOCs) in Waters by GC-MS	Semi-volatile organic compounds	Solvent extraction / GCMS detection	
1815	Polychlorinated Biphenyls (PCB) ICES7 Congeners in Waters by GC-MS	ICES7 PCB congeners	Solvent extraction / GCMS detection	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Text example All items indicated in italic font represent customer-supplied information that may not be independently verified by the laboratory
This report shall not be reproduced except in full, and only with the prior approval of the laboratory.
Any comments or interpretations are outside the scope of UKAS accreditation.
The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.
Uncertainty of measurement for the determinands tested are available upon request .
None of the results in this report have been recovery corrected.
All results are expressed on a dry weight basis.
The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.
For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.
All Asbestos testing is performed at the indicated laboratory .
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - The required amount of sample for analysis was not received
- H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.
All water samples will be retained for 14 days from the date of receipt.
Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 25-23033-1

Initial Date of Issue: 25-Jul-2025

Re-Issue Details:

Client *Priority Geotechnical Ltd*

Client Address: *Unit 12
Owenacurra Business Park
Midleton
County Cork
Ireland*

Contact(s): *Colette Kelly*

Project *P25019 Cleeves*

Quotation No.: *Q25-38372*

Date Received: 11-Jul-2025

Order No.: 16776

Date Instructed: 11-Jul-2025

No. of Samples: 6

Turnaround (Wkdays): 5

Results Due: 17-Jul-2025

Date Approved: 25-Jul-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Water

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:		25-23033	25-23033	25-23033	25-23033	25-23033	25-23033	25-23033
Quotation No.: Q25-38372		Chemtest Sample ID.:		1999309	1999310	1999311	1999312	1999313	1999314	
		<i>Client Reference:</i>		DSL T	USLT	OLT	USHT	DSHT	HT.Outflow	
		<i>Sample Type:</i>		WATER	WATER	WATER	WATER	WATER	WATER	
		<i>Sample Sub Type:</i>								
		<i>Date Sampled:</i>		08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
pH at 20C		U	1010		4.0	8.3	8.4	8.4	8.4	8.5
Electrical Conductivity at 25C		U	1020	µS/cm	1.0	440	420	420	440	440
Suspended Solids At 105C		U	1030	mg/l	5.0	1500	56	610	15	5.0
Total Dissolved Solids		N	1020	mg/l	1.0	280	280	270	280	280
Biochemical Oxygen Demand Low Level		N	1090	mg O2/l	1.0	6.0	6.0	7.0	6.0	5.0
Chemical Oxygen Demand Low Level		N	1100	mg O2/l	1.0	24	24	28	26	27
Dissolved Oxygen		N	1150	mg O2/l	0.50	8.7	8.3	8.9	9.1	9.6
Redox Potential		N	1170	mV	N/A	210	210	210	210	210
Alkalinity (Total)		U	1220	mg/l	10	220	220	220	200	200
Chloride		U	1220	mg/l	1.0	22	22	22	23	22
Ammoniacal Nitrogen		U	1220	mg/l	0.050	0.37	0.32	0.37	0.36	0.36
Nitrate as NO3		U	1220	mg/l	0.50	3.0	2.6	2.5	3.0	3.0
Phosphate		U	1220	mg/l	0.200	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Sulphate		U	1220	mg/l	1.0	17	16	16	17	16
Calcium (Dissolved)		U	1455	mg/l	2.00	65	63	61	66	66
Potassium (Dissolved)		U	1455	mg/l	0.50	2.5	2.3	2.3	2.3	2.3
Magnesium (Dissolved)		U	1455	mg/l	0.20	5.9	5.6	5.4	5.7	5.5
Sodium (Dissolved)		U	1455	mg/l	1.50	11	11	11	12	11
Arsenic (Dissolved)		U	1455	µg/l	0.20	1.0	0.76	1.2	0.66	0.70
Barium (Dissolved)		U	1455	µg/l	5.00	37	40	31	39	40
Cadmium (Dissolved)		U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Copper (Dissolved)		U	1455	µg/l	0.50	2.3	1.4	1.4	1.2	1.6
Iron (Dissolved)		N	1455	µg/l	5.0	13	19	13	17	18
Manganese (Dissolved)		U	1455	µg/l	0.50	11	1.4	2.0	3.1	7.4
Molybdenum (Dissolved)		U	1455	µg/l	0.20	0.42	0.40	0.38	0.38	0.34
Nickel (Dissolved)		U	1455	µg/l	0.50	1.5	1.2	1.3	1.3	1.7
Lead (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Antimony (Dissolved)		U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)		U	1455	µg/l	0.50	1.3	0.72	0.85	0.68	0.87
Zinc (Dissolved)		U	1455	µg/l	2.5	8.1	13	7.5	19	21
Mercury Low Level		U	1460	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Chromium (Trivalent)		N	1490	µg/l	20	< 20	< 20	< 20	< 20	< 20
Low-Level Chromium (Hexavalent)		U	1495	µg/l	0.10	< 0.10	< 0.10	1.2	< 0.10	< 0.10
Aliphatic TPH >C5-C6	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C10-C12	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C12-C16	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C16-C21	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C21-C35	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:						25-23033	25-23033	25-23033	25-23033	25-23033	25-23033
Quotation No.: Q25-38372		Chemtest Sample ID.:						1999309	1999310	1999311	1999312	1999313	1999314
		Client Reference:						DSLT	USLT	OLT	USHT	DSHT	HT.Outflow
		Sample Type:						WATER	WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:											
		Date Sampled:						08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Aliphatic TPH >C35-C44	EH_2D_AL_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	EH_2D_AL_#1	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C10-C12	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C12-C16	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C16-C21	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C21-C35	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C35-C44	EH_2D_AR_#1	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	EH_2D_AR_#1	N	1675	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	EH_2D_Total_#1	N	1675	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dichlorodifluoromethane		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane		U	1760	µg/l	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloroethane		U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichlorofluoromethane		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane		U	1760	µg/l	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichloromethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane		U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane		U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Bromodichloromethane		U	1760	µg/l	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene		N	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene		N	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1,2-Trichloroethane		U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane		U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromochloromethane		U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Results - Water

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:					25-23033	25-23033	25-23033	25-23033	25-23033	25-23033
Quotation No.: Q25-38372		Chemtest Sample ID.:					1999309	1999310	1999311	1999312	1999313	1999314
		Client Reference:					DSL T	USLT	OLT	USHT	DSHT	HT.Outflow
		Sample Type:					WATER	WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:										
		Date Sampled:					08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
1,2-Dibromoethane		U	1760	µg/l	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorobenzene		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane		U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane		N	1760	µg/l	50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
N-Propylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tert-Butylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Sec-Butylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Isopropyltoluene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Butylbenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane		N	1760	µg/l	50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,2,4-Trichlorobenzene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene		U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene		U	1760	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Tert-Butyl Ether		N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Nitrosodimethylamine		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylphenol (o-Cresol)		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachloroethane		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methylphenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Water

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:						25-23033	25-23033	25-23033	25-23033	25-23033	25-23033
Quotation No.: Q25-38372		Chemtest Sample ID.:						1999309	1999310	1999311	1999312	1999313	1999314
		<i>Client Reference:</i>						DSL T	USLT	OLT	USHT	DSHT	HT.Outflow
		<i>Sample Type:</i>						WATER	WATER	WATER	WATER	WATER	WATER
		<i>Sample Sub Type:</i>											
		<i>Date Sampled:</i>						08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Nitrobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isophorone		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitrophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dimethylphenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dichlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylnaphthalene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chloronaphthalene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthylene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dimethylphthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,6-Dinitrotoluene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
3-Nitroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenzofuran		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorophenylphenylether		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrotoluene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluorene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitroaniline		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Azobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobenzene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenanthrene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Anthracene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Carbazole		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Butyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluoranthene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Pyrene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Butylbenzyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]anthracene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chrysene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Water

Project: P25019 Cleeves

Client: Priority Geotechnical Ltd		Chemtest Job No.:						25-23033	25-23033	25-23033	25-23033	25-23033	25-23033
Quotation No.: Q25-38372		Chemtest Sample ID.:						1999309	1999310	1999311	1999312	1999313	1999314
		Client Reference:						DSL T	USLT	OLT	USHT	DSHT	HT.Outflow
		Sample Type:						WATER	WATER	WATER	WATER	WATER	WATER
		Sample Sub Type:											
		Date Sampled:						08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025	08-Jul-2025
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Bis(2-Ethylhexyl)Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[b]fluoranthene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[k]fluoranthene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]pyrene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenz(a,h)Anthracene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[g,h,i]perylene		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitrophenol		N	1790	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
PCB 28		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 52		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 101		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 118		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 153		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 138		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
PCB 180		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Total PCBs (7 congeners)		N	1815	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	RE PW TE TS PL DW GW
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	TE LE SW GW
1030	Total Suspended Solids	Total suspended solids	Filtration of a mixed sample through a standard glass fibre filter and determination of the mass of residue retained dried at 105°C.	SW
1090	Biochemical Oxygen Demand	Biochemical Oxygen demand (BOD)	Colorimetric determination of dissolved oxygen in seeded sample after 5 days incubation at 20°C.	
1100	Chemical Oxygen Demand	Chemical Oxygen demand (COD)	Dichromate oxidation of organic matter in sample followed by colorimetric determination of residual Cr[VI].	
1150	Dissolved Oxygen	Dissolved Oxygen (DO)	Electrometric determination (on site preferred), using oxygen sensitive membrane electrode.	
1170	Redox Potential	Redox Potential	Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW PL LE DW GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1460	Mercury low-level in Waters by AFS	Mercury	Atomic Fluorescence Spectrometry, with collimated UV source, wavelength 253.7 nm.	PL GW
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.	PL GW
1495	Low Level Hexavalent Chromium in Waters	Chromium [VI]	Colorimetric determination of hexavalent chromium expressed as Cr (VI) µg/l in water, using Ion Chromatography and UV-visible spectrophotometry.	GW
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5–C6, >C6–C8, >C8– C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Pentane extraction / GCxGC FID detection	
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.	PL GW
1790	Semi-Volatile Organic Compounds (SVOCs) in Waters by GC-MS	Semi-volatile organic compounds	Solvent extraction / GCMS detection	
1815	Polychlorinated Biphenyls (PCB) ICES7 Congeners in Waters by GC-MS	ICES7 PCB congeners	Solvent extraction / GCMS detection	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Text example All items indicated in italic font represent customer-supplied information that may not be independently verified by the laboratory
This report shall not be reproduced except in full, and only with the prior approval of the laboratory.
Any comments or interpretations are outside the scope of UKAS accreditation.
The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.
Uncertainty of measurement for the determinands tested are available upon request .
None of the results in this report have been recovery corrected.
All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.
All Asbestos testing is performed at the indicated laboratory .
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - The required amount of sample for analysis was not received
- H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.
All water samples will be retained for 14 days from the date of receipt.
Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com